

Fig. 1

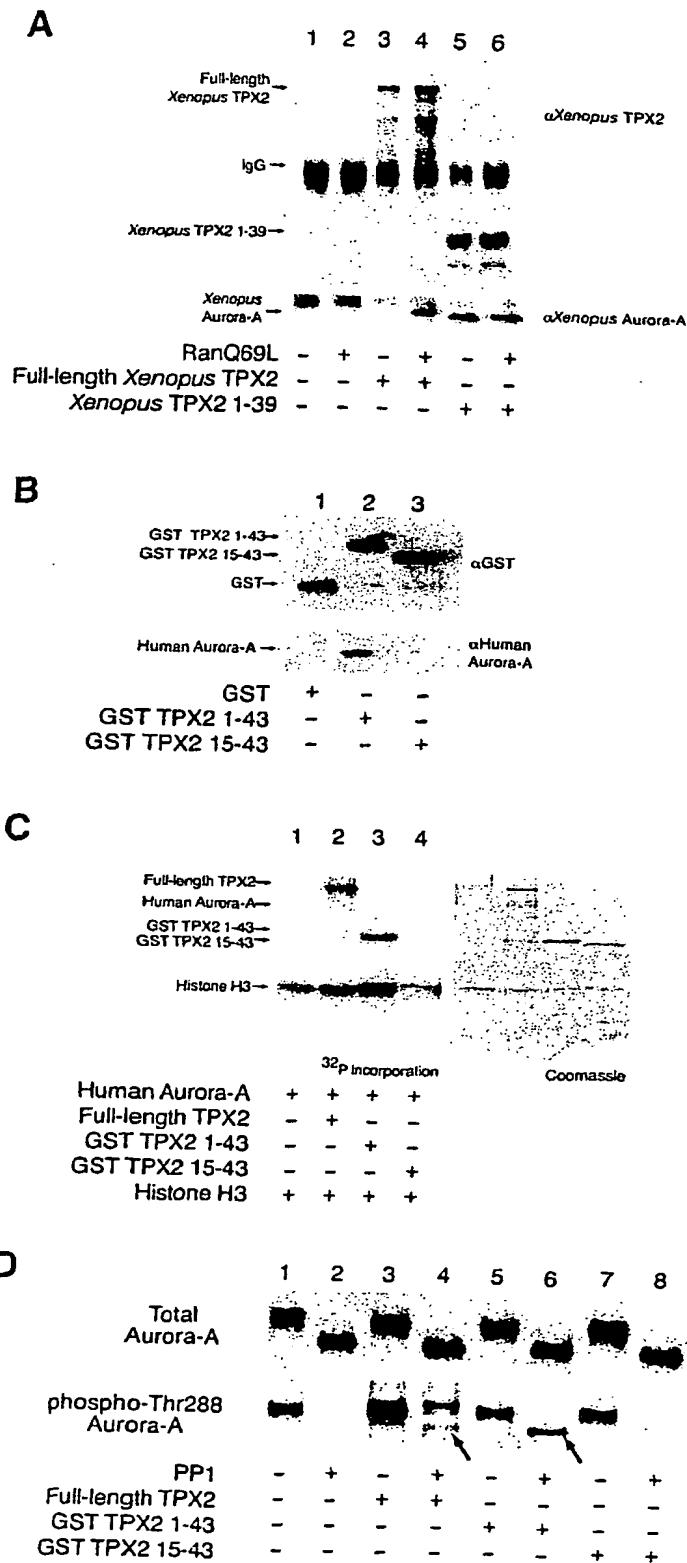


Fig. 2

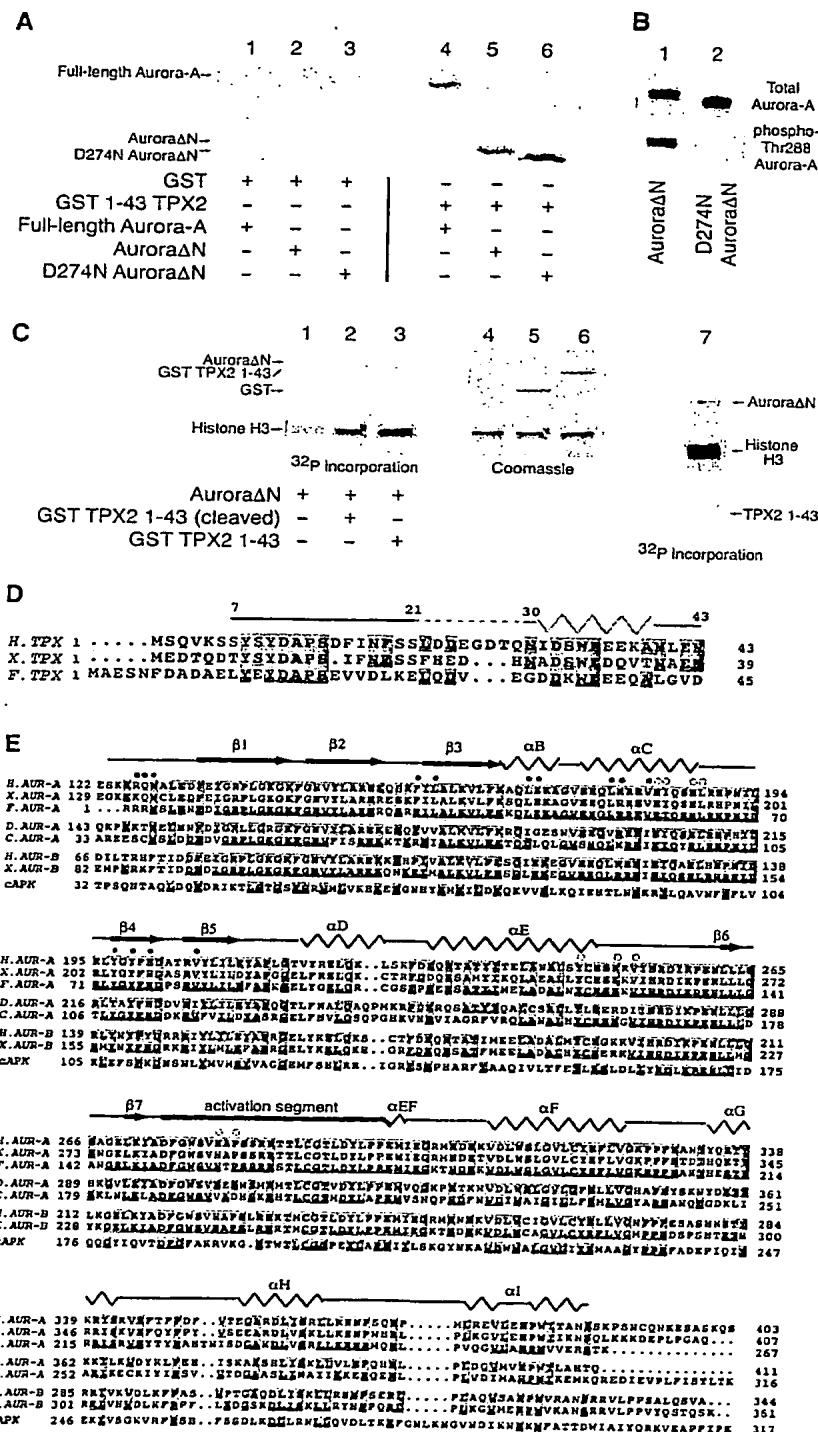


Fig. 3

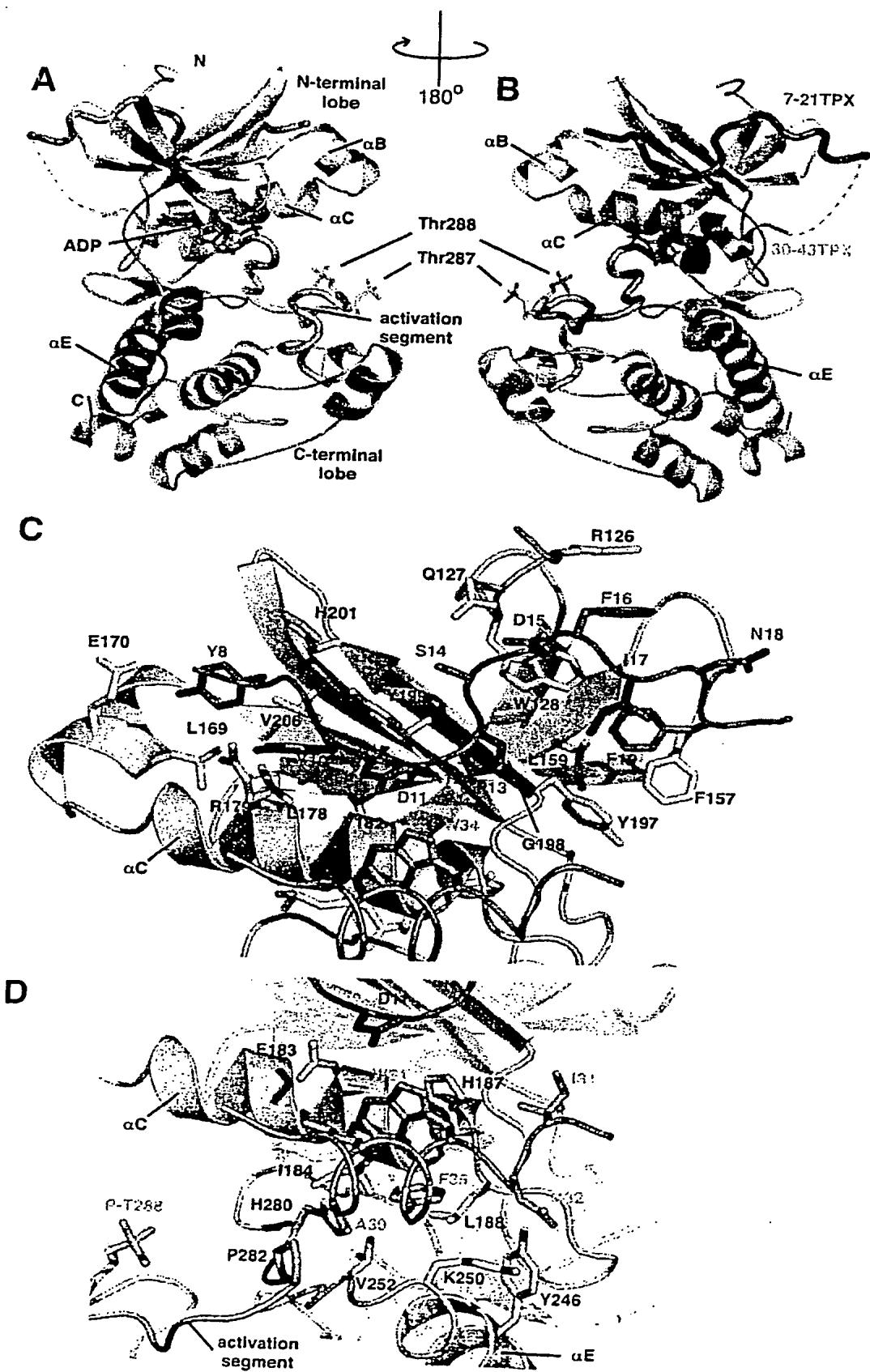


Fig. 4

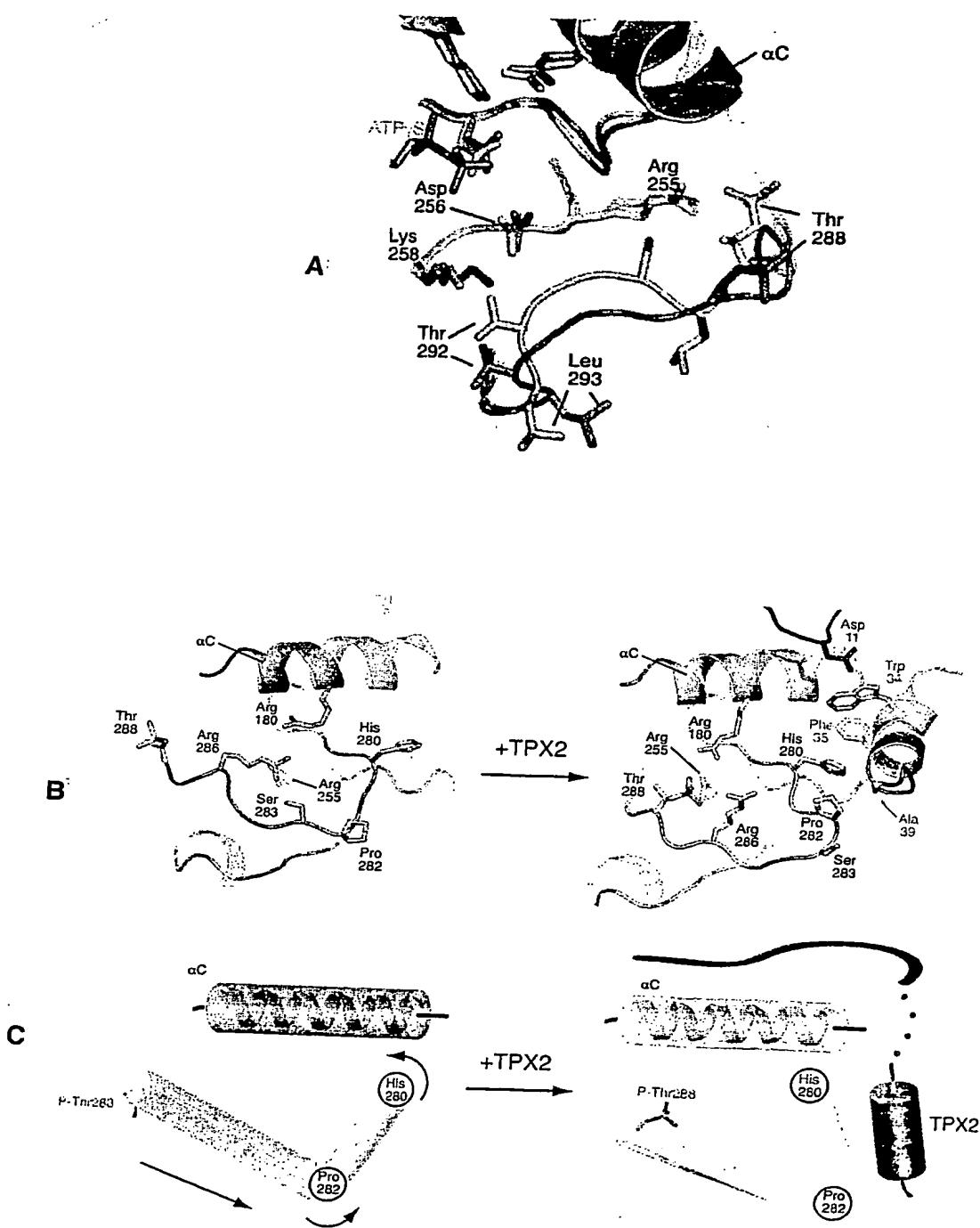


Fig. 5

Table A

ATOM	1	CB	GLN	A	127	267.519	-61.189	87.734	1.00	66.58	A	C
ATOM	2	CG	GLN	A	127	266.971	-61.391	86.330	1.00	76.29	A	C
ATOM	3	CD	GLN	A	127	266.372	-60.121	85.741	1.00	79.34	A	C
ATOM	4	OE1	GLN	A	127	265.589	-60.183	84.781	1.00	82.34	A	O
ATOM	5	NE2	GLN	A	127	266.735	-58.962	86.307	1.00	82.40	A	N
ATOM	6	C	GLN	A	127	269.192	-59.883	89.051	1.00	63.35	A	C
ATOM	7	O	GLN	A	127	269.877	-58.853	89.024	1.00	70.04	A	O
ATOM	8	N	GLN	A	127	269.910	-61.949	87.808	1.00	58.04	A	N
ATOM	9	CA	GLN	A	127	269.002	-60.755	87.810	1.00	67.74	A	C
ATOM	10	N	TRP	A	128	268.566	-60.307	90.137	1.00	61.21	A	N
ATOM	11	CA	TRP	A	128	268.621	-59.552	91.366	1.00	53.96	A	C
ATOM	12	CB	TRP	A	128	267.315	-59.733	92.133	1.00	50.38	A	C
ATOM	13	CG	TRP	A	128	266.140	-59.256	91.369	1.00	49.11	A	C
ATOM	14	CD2	TRP	A	128	265.908	-57.928	90.897	1.00	50.34	A	C
ATOM	15	CE2	TRP	A	128	264.697	-57.962	90.150	1.00	53.33	A	C
ATOM	16	CE3	TRP	A	128	266.611	-56.713	91.017	1.00	53.44	A	C
ATOM	17	CD1	TRP	A	128	265.096	-60.014	90.921	1.00	47.17	A	C
ATOM	18	NE1	TRP	A	128	264.228	-59.249	90.191	1.00	49.20	A	C
ATOM	19	CZ2	TRP	A	128	264.160	-56.816	89.514	1.00	56.77	A	C
ATOM	20	CZ3	TRP	A	128	266.094	-55.571	90.392	1.00	60.23	A	C
ATOM	21	CH2	TRP	A	128	264.869	-55.633	89.639	1.00	61.57	A	C
ATOM	22	C	TRP	A	128	269.787	-59.909	92.262	1.00	54.43	A	C
ATOM	23	O	TRP	A	128	270.317	-61.026	92.231	1.00	54.76	A	O
ATOM	24	N	ALA	A	129	270.184	-58.955	93.085	1.00	55.48	A	N
ATOM	25	CA	ALA	A	129	271.283	-59.206	94.006	1.00	60.01	A	C
ATOM	26	CB	ALA	A	129	272.608	-58.800	93.341	1.00	66.60	A	C
ATOM	27	C	ALA	A	129	271.010	-58.371	95.258	1.00	56.86	A	C
ATOM	28	O	ALA	A	129	270.365	-57.326	95.173	1.00	59.08	A	C
ATOM	29	N	LEU	A	130	271.517	-58.821	96.401	1.00	51.68	A	N
ATOM	30	CA	LEU	A	130	271.314	-58.126	97.665	1.00	53.06	A	C
ATOM	31	CB	LEU	A	130	272.108	-58.770	98.787	1.00	43.18	A	C
ATOM	32	CG	LEU	A	130	272.080	-58.110	100.164	1.00	36.68	A	C
ATOM	33	CD1	LEU	A	130	270.621	-57.934	100.570	1.00	47.13	A	C
ATOM	34	CD2	LEU	A	130	272.839	-58.975	101.186	1.00	38.64	A	C
ATOM	35	C	LEU	A	130	271.750	-56.702	97.591	1.00	55.17	A	C
ATOM	36	O	LEU	A	130	271.223	-55.834	98.305	1.00	61.19	A	O
ATOM	37	N	GLU	A	131	272.686	-56.469	96.690	1.00	58.94	A	N
ATOM	38	CA	GLU	A	131	273.276	-55.172	96.539	1.00	57.04	A	C
ATOM	39	CB	GLU	A	131	274.689	-55.400	96.030	1.00	63.45	A	C
ATOM	40	CG	GLU	A	131	275.441	-56.450	96.938	1.00	73.38	A	C
ATOM	41	CD	GLU	A	131	275.249	-57.909	96.486	1.00	79.54	A	C
ATOM	42	OE1	GLU	A	131	274.529	-58.142	95.477	1.00	80.97	A	O
ATOM	43	OE2	GLU	A	131	275.838	-58.820	97.135	1.00	88.53	A	O
ATOM	44	C	GLU	A	131	272.458	-54.235	95.682	1.00	55.07	A	C
ATOM	45	O	GLU	A	131	272.851	-53.119	95.439	1.00	51.83	A	C
ATOM	46	N	ASP	A	132	271.280	-54.704	95.299	1.00	53.60	A	O
ATOM	47	CA	ASP	A	132	270.298	-53.994	94.487	1.00	58.59	A	C
ATOM	48	CB	ASP	A	132	269.514	-54.987	93.656	1.00	69.09	A	C
ATOM	49	CG	ASP	A	132	270.030	-55.141	92.284	1.00	68.36	A	C
ATOM	50	OD1	ASP	A	132	269.776	-54.250	91.447	1.00	73.44	A	O
ATOM	51	OD2	ASP	A	132	270.704	-56.159	92.048	1.00	76.16	A	O
ATOM	52	C	ASP	A	132	269.267	-53.412	95.449	1.00	59.74	A	C
ATOM	53	O	ASP	A	132	268.472	-52.547	95.093	1.00	56.43	A	O
ATOM	54	N	PHE	A	133	269.239	-53.925	96.666	1.00	62.15	A	N
ATOM	55	CA	PHE	A	133	268.239	-53.448	97.598	1.00	62.91	A	C
ATOM	56	CB	PHE	A	133	267.324	-54.622	97.974	1.00	59.55	A	C
ATOM	57	CG	PHE	A	133	266.737	-55.337	96.775	1.00	61.26	A	C
ATOM	58	CD1	PHE	A	133	267.467	-56.312	96.095	1.00	60.00	A	C
ATOM	59	CD2	PHE	A	133	265.442	-55.059	96.346	1.00	60.03	A	C
ATOM	60	CE1	PHE	A	133	266.910	-56.996	94.991	1.00	65.06	A	C
ATOM	61	CE2	PHE	A	133	264.883	-55.719	95.264	1.00	60.82	A	C
ATOM	62	CZ	PHE	A	133	265.607	-56.697	94.585	1.00	61.32	A	C

ATOM	63	C	PHE	A	133	268.740	-52.733	98.847	1.00	61.07	A	C
ATOM	64	O	PHE	A	133	269.866	-52.972	99.318	1.00	66.24	A	O
ATOM	65	N	GLU	A	134	267.878	-51.829	99.340	1.00	59.55	A	N
ATOM	66	CA	GLU	A	134	268.062	-51.035	100.573	1.00	58.90	A	C
ATOM	67	CB	GLU	A	134	267.589	-49.593	100.353	1.00	54.77	A	C
ATOM	68	CG	GLU	A	134	268.478	-48.772	99.488	1.00	63.45	A	C
ATOM	69	CD	GLU	A	134	268.205	-47.282	99.556	1.00	61.84	A	C
ATOM	70	OE1	GLU	A	134	268.808	-46.576	100.384	1.00	75.06	A	O
ATOM	71	OE2	GLU	A	134	267.388	-46.803	98.768	1.00	73.27	A	O
ATOM	72	C	GLU	A	134	267.139	-51.698	101.627	1.00	53.85	A	C
ATOM	73	O	GLU	A	134	265.909	-51.607	101.526	1.00	60.03	A	O
ATOM	74	N	ILE	A	135	267.713	-52.362	102.621	1.00	52.32	A	N
ATOM	75	CA	ILE	A	135	266.917	-53.042	103.625	1.00	50.89	A	C
ATOM	76	CB	ILE	A	135	267.750	-54.131	104.343	1.00	48.23	A	C
ATOM	77	CG2	ILE	A	135	266.828	-55.078	105.127	1.00	51.35	A	C
ATOM	78	CG1	ILE	A	135	268.552	-54.940	103.317	1.00	48.00	A	C
ATOM	79	CD1	ILE	A	135	267.731	-55.720	102.398	1.00	35.46	A	C
ATOM	80	C	ILE	A	135	266.298	-52.129	104.674	1.00	50.54	A	C
ATOM	81	O	ILE	A	135	266.973	-51.281	105.250	1.00	50.32	A	O
ATOM	82	N	GLY	A	136	265.004	-52.334	104.924	1.00	49.85	A	N
ATOM	83	CA	GLY	A	136	264.286	-51.534	105.903	1.00	44.78	A	C
ATOM	84	C	GLY	A	136	264.165	-52.255	107.228	1.00	44.85	A	C
ATOM	85	O	GLY	A	136	265.040	-53.071	107.574	1.00	45.10	A	O
ATOM	86	N	ARG	A	137	263.071	-51.996	107.940	1.00	40.54	A	N
ATOM	87	CA	ARG	A	137	262.891	-52.598	109.248	1.00	47.22	A	C
ATOM	88	CB	ARG	A	137	261.911	-51.766	110.065	1.00	46.15	A	C
ATOM	89	CG	ARG	A	137	260.481	-51.887	109.585	1.00	46.77	A	C
ATOM	90	CD	ARG	A	137	259.521	-51.284	110.589	1.00	47.76	A	C
ATOM	91	NE	ARG	A	137	258.174	-51.283	110.058	1.00	44.18	A	N
ATOM	92	CZ	ARG	A	137	257.364	-52.330	110.097	1.00	49.13	A	C
ATOM	93	NH1	ARG	A	137	257.779	-53.468	110.655	1.00	50.41	A	N
ATOM	94	NH2	ARG	A	137	256.144	-52.230	109.579	1.00	42.98	A	N
ATOM	95	C	ARG	A	137	262.358	-54.014	109.150	1.00	48.40	A	C
ATOM	96	O	ARG	A	137	261.734	-54.370	108.150	1.00	52.53	A	O
ATOM	97	N	PRO	A	138	262.589	-54.840	110.190	1.00	48.54	A	N
ATOM	98	CD	PRO	A	138	263.443	-54.581	111.363	1.00	46.06	A	C
ATOM	99	CA	PRO	A	138	262.108	-56.226	110.213	1.00	46.02	A	C
ATOM	100	CB	PRO	A	138	262.685	-56.765	111.524	1.00	49.55	A	C
ATOM	101	CG	PRO	A	138	263.905	-55.955	111.710	1.00	42.97	A	C
ATOM	102	C	PRO	A	138	260.561	-56.262	110.207	1.00	49.85	A	C
ATOM	103	O	PRO	A	138	259.920	-55.810	111.142	1.00	50.42	A	O
ATOM	104	N	LEU	A	139	259.980	-56.799	109.138	1.00	45.75	A	N
ATOM	105	CA	LEU	A	139	258.545	-56.896	109.005	1.00	39.58	A	C
ATOM	106	CB	LEU	A	139	258.181	-57.130	107.558	1.00	37.24	A	C
ATOM	107	CG	LEU	A	139	258.109	-55.885	106.664	1.00	42.68	A	C
ATOM	108	CD1	LEU	A	139	257.816	-56.315	105.170	1.00	32.13	A	C
ATOM	109	CD2	LEU	A	139	256.990	-54.961	107.170	1.00	43.77	A	C
ATOM	110	C	LEU	A	139	257.968	-58.002	109.880	1.00	40.81	A	C
ATOM	111	O	LEU	A	139	256.907	-57.861	110.480	1.00	45.92	A	O
ATOM	112	N	GLY	A	140	258.675	-59.111	109.970	1.00	45.15	A	N
ATOM	113	CA	GLY	A	140	258.198	-60.218	110.789	1.00	48.82	A	C
ATOM	114	C	GLY	A	140	259.222	-61.317	111.040	1.00	48.37	A	C
ATOM	115	O	GLY	A	140	260.326	-61.310	110.492	1.00	53.08	A	O
ATOM	116	N	LYS	A	141	258.842	-62.283	111.856	1.00	52.66	A	N
ATOM	117	CA	LYS	A	141	259.740	-63.376	112.192	1.00	56.79	A	C
ATOM	118	CB	LYS	A	141	259.961	-63.404	113.707	1.00	61.89	A	C
ATOM	119	CG	LYS	A	141	260.862	-64.513	114.210	1.00	68.25	A	C
ATOM	120	CD	LYS	A	141	260.894	-64.538	115.750	1.00	78.79	A	C
ATOM	121	CE	LYS	A	141	261.863	-65.624	116.242	1.00	83.42	A	C
ATOM	122	NZ	LYS	A	141	261.987	-65.651	117.745	1.00	90.84	A	N
ATOM	123	C	LYS	A	141	259.219	-64.728	111.704	1.00	57.82	A	C
ATOM	124	O	LYS	A	141	258.150	-65.199	112.084	1.00	57.17	A	O
ATOM	125	N	GLY	A	142	259.990	-65.342	110.823	1.00	63.79	A	N
ATOM	126	CA	GLY	A	142	259.627	-66.648	110.315	1.00	67.77	A	C
ATOM	127	C	GLY	A	142	260.381	-67.717	111.087	1.00	68.12	A	C
ATOM	128	O	GLY	A	142	260.756	-67.533	112.255	1.00	76.19	A	O
ATOM	129	N	LYS	A	143	260.638	-68.829	110.410	1.00	66.29	A	N
ATOM	130	CA	LYS	A	143	261.359	-69.941	111.016	1.00	62.91	A	C
ATOM	131	CB	LYS	A	143	260.576	-71.221	110.783	1.00	56.50	A	C
ATOM	132	CG	LYS	A	143	260.990	-72.331	111.694	1.00	59.59	A	C

ATOM	133	CD	LYS A 143	259.804	-73.170	112.130	1.00	65.95	A	C
ATOM	134	CE	LYS A 143	260.182	-74.141	113.303	1.00	69.37	A	C
ATOM	135	NZ	LYS A 143	259.069	-75.109	113.596	1.00	70.95	A	N
ATOM	136	C	LYS A 143	262.773	-70.081	110.500	1.00	62.52	A	C
ATOM	137	O	LYS A 143	263.725	-70.302	111.243	1.00	61.60	A	O
ATOM	138	N	PHE A 144	262.909	-69.898	109.200	1.00	68.60	A	N
ATOM	139	CA	PHE A 144	264.215	-70.021	108.556	1.00	74.62	A	C
ATOM	140	CB	PHE A 144	264.109	-70.886	107.296	1.00	69.32	A	C
ATOM	141	CG	PHE A 144	263.583	-72.278	107.565	1.00	69.58	A	C
ATOM	142	CD1	PHE A 144	262.211	-72.526	107.690	1.00	66.23	A	C
ATOM	143	CD2	PHE A 144	264.460	-73.335	107.731	1.00	63.51	A	C
ATOM	144	CE1	PHE A 144	261.738	-73.816	107.978	1.00	73.24	A	C
ATOM	145	CE2	PHE A 144	263.985	-74.608	108.014	1.00	69.83	A	C
ATOM	146	CZ	PHE A 144	262.629	-74.850	108.138	1.00	66.31	A	C
ATOM	147	C	PHE A 144	264.768	-68.665	108.234	1.00	74.80	A	C
ATOM	148	O	PHE A 144	265.636	-68.496	107.395	1.00	82.71	A	O
ATOM	149	N	GLY A 145	264.248	-67.691	108.955	1.00	83.57	A	N
ATOM	150	CA	GLY A 145	264.676	-66.320	108.782	1.00	77.10	A	C
ATOM	151	C	GLY A 145	263.544	-65.296	108.827	1.00	75.14	A	C
ATOM	152	O	GLY A 145	262.338	-65.557	108.521	1.00	74.64	A	O
ATOM	153	N	ASN A 146	263.966	-64.097	109.195	1.00	67.46	A	N
ATOM	154	CA	ASN A 146	263.050	-62.976	109.318	1.00	65.84	A	C
ATOM	155	CB	ASN A 146	263.674	-61.895	110.208	1.00	68.52	A	C
ATOM	156	CG	ASN A 146	263.873	-62.369	111.664	1.00	74.23	A	C
ATOM	157	OD1	ASN A 146	264.045	-63.577	111.946	1.00	76.10	A	O
ATOM	158	ND2	ASN A 146	263.871	-61.415	112.588	1.00	74.93	A	N
ATOM	159	C	ASN A 146	262.727	-62.402	107.955	1.00	60.10	A	C
ATOM	160	O	ASN A 146	263.442	-62.661	106.979	1.00	60.40	A	O
ATOM	161	N	VAL A 147	261.651	-61.614	107.909	1.00	49.34	A	N
ATOM	162	CA	VAL A 147	261.208	-60.938	106.697	1.00	34.29	A	C
ATOM	163	CB	VAL A 147	259.691	-61.195	106.433	1.00	35.55	A	C
ATOM	164	CG1	VAL A 147	259.202	-60.303	105.293	1.00	22.76	A	C
ATOM	165	CG2	VAL A 147	259.444	-62.657	106.040	1.00	25.36	A	C
ATOM	166	C	VAL A 147	261.432	-59.427	106.905	1.00	36.01	A	C
ATOM	167	O	VAL A 147	261.071	-58.888	107.912	1.00	33.80	A	O
ATOM	168	N	TYR A 148	262.006	-58.743	105.931	1.00	38.73	A	N
ATOM	169	CA	TYR A 148	262.298	-57.313	106.040	1.00	38.16	A	C
ATOM	170	CB	TYR A 148	263.815	-57.053	105.947	1.00	44.86	A	C
ATOM	171	CG	TYR A 148	264.625	-57.783	106.981	1.00	51.34	A	C
ATOM	172	CD1	TYR A 148	264.946	-59.110	106.823	1.00	49.12	A	C
ATOM	173	CE1	TYR A 148	265.660	-59.799	107.804	1.00	57.49	A	C
ATOM	174	CD2	TYR A 148	265.035	-57.152	108.146	1.00	56.42	A	C
ATOM	175	CE2	TYR A 148	265.743	-57.839	109.136	1.00	62.05	A	C
ATOM	176	CZ	TYR A 148	266.051	-59.159	108.958	1.00	59.22	A	C
ATOM	177	OH	TYR A 148	266.740	-59.818	109.951	1.00	62.90	A	O
ATOM	178	C	TYR A 148	261.647	-56.485	104.972	1.00	40.31	A	C
ATOM	179	O	TYR A 148	261.240	-56.989	103.910	1.00	39.68	A	O
ATOM	180	N	LEU A 149	261.564	-55.187	105.254	1.00	37.70	A	N
ATOM	181	CA	LEU A 149	260.992	-54.236	104.287	1.00	36.17	A	C
ATOM	182	CB	LEU A 149	260.495	-52.976	105.019	1.00	38.73	A	C
ATOM	183	CG	LEU A 149	259.781	-51.920	104.186	1.00	39.39	A	C
ATOM	184	CD1	LEU A 149	258.437	-52.465	103.793	1.00	46.05	A	C
ATOM	185	CD2	LEU A 149	259.655	-50.660	104.957	1.00	40.68	A	C
ATOM	186	C	LEU A 149	262.212	-53.920	103.405	1.00	35.83	A	C
ATOM	187	O	LEU A 149	263.340	-54.217	103.822	1.00	37.60	A	C
ATOM	188	N	ALA A 150	262.029	-53.321	102.228	1.00	37.02	A	N
ATOM	189	CA	ALA A 150	263.171	-53.041	101.363	1.00	35.35	A	C
ATOM	190	CB	ALA A 150	263.889	-54.345	100.965	1.00	48.80	A	C
ATOM	191	C	ALA A 150	262.746	-52.334	100.123	1.00	44.17	A	C
ATOM	192	O	ALA A 150	261.665	-52.604	99.566	1.00	41.00	A	O
ATOM	193	N	ARG A 151	263.619	-51.441	99.666	1.00	47.00	A	N
ATOM	194	CA	ARG A 151	263.319	-50.674	98.468	1.00	50.37	A	C
ATOM	195	CB	ARG A 151	263.377	-49.171	98.793	1.00	53.91	A	C
ATOM	196	CG	ARG A 151	262.912	-48.272	97.649	1.00	53.96	A	C
ATOM	197	CD	ARG A 151	262.834	-46.817	98.014	1.00	57.39	A	C
ATOM	198	NE	ARG A 151	264.145	-46.372	98.607	1.00	58.37	A	N
ATOM	199	CZ	ARG A 151	264.561	-45.110	98.572	1.00	58.07	A	C
ATOM	200	NH1	ARG A 151	263.814	-44.175	97.969	1.00	56.20	A	N
ATOM	201	NH2	ARG A 151	265.718	-44.793	99.131	1.00	55.48	A	N
ATOM	202	C	ARG A 151	264.311	-51.021	97.348	1.00	55.38	A	C

ATOM	203	O	ARG A 151	265.503	-51.247	97.625	1.00	60.78	A	O
ATOM	204	N	GLU A 152	263.826	-51.059	96.105	1.00	54.28	A	N
ATOM	205	CA	GLU A 152	264.664	-51.366	94.972	1.00	54.46	A	C
ATOM	206	CB	GLU A 152	263.811	-51.817	93.823	1.00	60.23	A	C
ATOM	207	CG	GLU A 152	264.520	-52.780	92.888	1.00	67.69	A	C
ATOM	208	CD	GLU A 152	265.617	-52.120	92.087	1.00	75.21	A	C
ATOM	209	OE1	GLU A 152	266.773	-52.020	92.593	1.00	78.70	A	O
ATOM	210	OE2	GLU A 152	265.305	-51.689	90.951	1.00	76.28	A	O
ATOM	211	C	GLU A 152	265.436	-50.117	94.598	1.00	54.18	A	C
ATOM	212	O	GLU A 152	264.868	-49.045	94.388	1.00	55.50	A	O
ATOM	213	N	LYS A 153	266.746	-50.275	94.489	1.00	55.96	A	N
ATOM	214	CA	LYS A 153	267.583	-49.115	94.231	1.00	57.21	A	C
ATOM	215	CB	LYS A 153	269.059	-49.471	94.257	1.00	56.21	A	C
ATOM	216	CG	LYS A 153	269.661	-49.042	95.586	1.00	49.03	A	C
ATOM	217	CD	LYS A 153	270.821	-49.929	95.975	1.00	56.59	A	C
ATOM	218	CE	LYS A 153	271.022	-49.981	97.450	1.00	62.23	A	C
ATOM	219	NZ	LYS A 153	272.289	-50.704	97.804	1.00	63.82	A	N
ATOM	220	C	LYS A 153	267.300	-48.233	93.056	1.00	60.69	A	C
ATOM	221	O	LYS A 153	267.418	-47.029	93.188	1.00	68.16	A	O
ATOM	222	N	GLN A 154	266.890	-48.704	91.909	1.00	60.83	A	N
ATOM	223	CA	GLN A 154	266.722	-47.630	90.954	1.00	60.63	A	C
ATOM	224	CB	GLN A 154	267.313	-48.015	89.612	1.00	65.34	A	C
ATOM	225	CG	GLN A 154	268.585	-48.908	89.762	1.00	73.31	A	C
ATOM	226	CD	GLN A 154	268.842	-49.643	88.514	1.00	76.62	A	C
ATOM	227	OE1	GLN A 154	268.751	-49.059	87.368	1.00	77.22	A	O
ATOM	228	NE2	GLN A 154	269.150	-50.963	88.658	1.00	79.75	A	C
ATOM	229	C	GLN A 154	265.288	-47.279	90.868	1.00	58.41	A	N
ATOM	230	O	GLN A 154	264.929	-46.135	90.760	1.00	66.80	A	O
ATOM	231	N	SER A 155	264.465	-48.297	91.026	1.00	63.11	A	N
ATOM	232	CA	SER A 155	263.012	-48.182	90.986	1.00	57.08	A	C
ATOM	233	CB	SER A 155	262.438	-49.593	90.891	1.00	57.59	A	C
ATOM	234	OG	SER A 155	261.096	-49.532	90.511	1.00	71.09	A	O
ATOM	235	C	SER A 155	262.393	-47.454	92.192	1.00	54.17	A	C
ATOM	236	O	SER A 155	261.494	-46.653	92.054	1.00	41.48	A	O
ATOM	237	N	LYS A 156	262.919	-47.739	93.368	1.00	54.36	A	N
ATOM	238	CA	LYS A 156	262.415	-47.187	94.614	1.00	65.54	A	C
ATOM	239	CB	LYS A 156	262.133	-45.687	94.476	1.00	68.88	A	C
ATOM	240	CG	LYS A 156	263.375	-44.809	94.527	1.00	68.98	A	C
ATOM	241	CD	LYS A 156	263.018	-43.342	94.698	1.00	65.67	A	C
ATOM	242	CE	LYS A 156	262.170	-42.850	93.529	1.00	62.20	A	C
ATOM	243	NZ	LYS A 156	261.774	-41.416	93.679	1.00	56.13	A	N
ATOM	244	C	LYS A 156	261.138	-47.958	95.009	1.00	64.77	A	C
ATOM	245	O	LYS A 156	260.317	-47.485	95.803	1.00	68.30	A	O
ATOM	246	N	PHE A 157	261.012	-49.159	94.446	1.00	62.48	A	N
ATOM	247	CA	PHE A 157	259.891	-50.051	94.679	1.00	52.64	A	C
ATOM	248	CB	PHE A 157	259.878	-51.110	93.580	1.00	54.51	A	C
ATOM	249	CG	PHE A 157	258.621	-51.933	93.525	1.00	52.32	A	C
ATOM	250	CD1	PHE A 157	257.665	-51.694	92.549	1.00	54.81	A	C
ATOM	251	CD2	PHE A 157	258.395	-52.950	94.448	1.00	55.89	A	C
ATOM	252	CE1	PHE A 157	256.499	-52.451	92.487	1.00	53.63	A	C
ATOM	253	CE2	PHE A 157	257.232	-53.719	94.401	1.00	54.27	A	C
ATOM	254	CZ	PHE A 157	256.286	-53.467	93.419	1.00	58.00	A	C
ATOM	255	C	PHE A 157	260.015	-50.719	96.056	1.00	51.79	A	C
ATOM	256	O	PHE A 157	261.020	-51.370	96.340	1.00	47.35	A	O
ATOM	257	N	ILE A 158	258.996	-50.539	96.900	1.00	50.33	A	N
ATOM	258	CA	ILE A 158	258.997	-51.137	98.212	1.00	48.14	A	C
ATOM	259	CB	ILE A 158	258.329	-50.196	99.284	1.00	48.26	A	C
ATOM	260	CG2	ILE A 158	257.863	-50.988	100.478	1.00	42.57	A	C
ATOM	261	CG1	ILE A 158	259.382	-49.205	99.795	1.00	48.74	A	C
ATOM	262	CD1	ILE A 158	258.914	-48.326	100.849	1.00	60.25	A	C
ATOM	263	C	ILE A 158	258.354	-52.530	98.176	1.00	52.33	A	C
ATOM	264	O	ILE A 158	257.269	-52.732	97.635	1.00	50.55	A	O
ATOM	265	N	LEU A 159	259.034	-53.472	98.823	1.00	52.37	A	N
ATOM	266	CA	LEU A 159	258.631	-54.858	98.835	1.00	48.01	A	C
ATOM	267	CB	LEU A 159	259.322	-55.530	97.663	1.00	49.17	A	C
ATOM	268	CG	LEU A 159	260.759	-55.019	97.480	1.00	47.74	A	C
ATOM	269	CD1	LEU A 159	261.690	-55.880	98.307	1.00	46.92	A	C
ATOM	270	CD2	LEU A 159	261.150	-55.055	96.008	1.00	47.94	A	C
ATOM	271	C	LEU A 159	259.089	-55.468	100.111	1.00	44.03	A	C
ATOM	272	O	LEU A 159	259.595	-54.777	100.931	1.00	48.23	A	O

ATOM	273	N	ALA A 160	258.889	-56.765	100.280	1.00	43.85	A	N
ATOM	274	CA	ALA A 160	259.347	-57.465	101.474	1.00	37.28	A	C
ATOM	275	CB	ALA A 160	258.187	-58.117	102.184	1.00	41.03	A	C
ATOM	276	C	ALA A 160	260.346	-58.531	101.030	1.00	43.40	A	C
ATOM	277	O	ALA A 160	260.084	-59.301	100.096	1.00	40.92	A	O
ATOM	278	N	LEU A 161	261.494	-58.566	101.693	1.00	46.08	A	N
ATOM	279	CA	LEU A 161	262.564	-59.520	101.378	1.00	44.64	A	C
ATOM	280	CB	LEU A 161	263.916	-58.794	101.334	1.00	47.23	A	C
ATOM	281	CG	LEU A 161	264.865	-59.050	100.188	1.00	47.49	A	C
ATOM	282	CD1	LEU A 161	264.153	-58.846	98.870	1.00	42.04	A	C
ATOM	283	CD2	LEU A 161	266.031	-58.125	100.309	1.00	46.85	A	C
ATOM	284	C	LEU A 161	262.607	-60.592	102.441	1.00	45.60	A	C
ATOM	285	O	LEU A 161	263.013	-60.338	103.570	1.00	56.35	A	O
ATOM	286	N	LYS A 162	262.194	-61.801	102.078	1.00	46.81	A	N
ATOM	287	CA	LYS A 162	262.178	-62.940	103.009	1.00	41.78	A	C
ATOM	288	CB	LYS A 162	261.104	-63.922	102.585	1.00	37.22	A	C
ATOM	289	CG	LYS A 162	260.826	-65.007	103.588	1.00	34.96	A	C
ATOM	290	CD	LYS A 162	259.600	-65.804	103.219	1.00	30.75	A	C
ATOM	291	CE	LYS A 162	259.522	-67.056	104.081	1.00	32.45	A	C
ATOM	292	NZ	LYS A 162	258.194	-67.801	103.796	1.00	32.97	A	N
ATOM	293	C	LYS A 162	263.521	-63.634	103.018	1.00	43.17	A	C
ATOM	294	O	LYS A 162	263.869	-64.350	102.087	1.00	50.65	A	O
ATOM	295	N	VAL A 163	264.299	-63.369	104.049	1.00	47.41	A	N
ATOM	296	CA	VAL A 163	265.625	-63.965	104.187	1.00	50.56	A	C
ATOM	297	CB	VAL A 163	266.539	-63.091	105.120	1.00	49.49	A	C
ATOM	298	CG1	VAL A 163	267.951	-63.664	105.180	1.00	43.15	A	C
ATOM	299	CG2	VAL A 163	266.555	-61.660	104.586	1.00	46.95	A	C
ATOM	300	C	VAL A 163	265.570	-65.371	104.756	1.00	48.41	A	C
ATOM	301	O	VAL A 163	264.994	-65.586	105.798	1.00	53.08	A	O
ATOM	302	N	LEU A 164	266.195	-66.329	104.085	1.00	53.99	A	N
ATOM	303	CA	LEU A 164	266.261	-67.732	104.569	1.00	55.36	A	C
ATOM	304	CB	LEU A 164	265.516	-68.657	103.598	1.00	54.99	A	C
ATOM	305	CG	LEU A 164	264.173	-68.154	103.039	1.00	57.06	A	C
ATOM	306	CD1	LEU A 164	264.096	-68.423	101.535	1.00	57.49	A	C
ATOM	307	CD2	LEU A 164	263.093	-68.851	103.764	1.00	55.47	A	C
ATOM	308	C	LEU A 164	267.715	-68.188	104.665	1.00	52.23	A	C
ATOM	309	O	LEU A 164	268.488	-67.990	103.745	1.00	50.98	A	O
ATOM	310	N	PHE A 165	268.081	-68.800	105.774	1.00	52.15	A	N
ATOM	311	CA	PHE A 165	269.422	-69.297	105.892	1.00	51.87	A	C
ATOM	312	CB	PHE A 165	269.859	-69.322	107.352	1.00	54.79	A	C
ATOM	313	CG	PHE A 165	270.210	-67.979	107.875	1.00	59.43	A	C
ATOM	314	CD1	PHE A 165	269.232	-67.171	108.426	1.00	61.03	A	C
ATOM	315	CD2	PHE A 165	271.517	-67.493	107.769	1.00	59.15	A	C
ATOM	316	CE1	PHE A 165	269.542	-65.896	108.856	1.00	59.31	A	C
ATOM	317	CE2	PHE A 165	271.835	-66.216	108.196	1.00	59.42	A	C
ATOM	318	CZ	PHE A 165	270.845	-65.412	108.745	1.00	60.41	A	C
ATOM	319	C	PHE A 165	269.598	-70.683	105.287	1.00	52.40	A	C
ATOM	320	O	PHE A 165	268.924	-71.654	105.675	1.00	45.64	A	O
ATOM	321	N	LYS A 166	270.504	-70.772	104.320	1.00	52.32	A	N
ATOM	322	CA	LYS A 166	270.786	-72.050	103.696	1.00	53.94	A	C
ATOM	323	CB	LYS A 166	271.911	-71.916	102.708	1.00	47.98	A	C
ATOM	324	CG	LYS A 166	271.540	-71.081	101.498	1.00	41.92	A	C
ATOM	325	CD	LYS A 166	272.530	-71.309	100.383	1.00	38.85	A	C
ATOM	326	CE	LYS A 166	272.490	-70.201	99.345	1.00	31.90	A	C
ATOM	327	NZ	LYS A 166	273.477	-70.401	98.252	1.00	43.47	A	N
ATOM	328	C	LYS A 166	271.159	-73.067	104.740	1.00	51.94	A	C
ATOM	329	O	LYS A 166	270.625	-74.147	104.743	1.00	62.20	A	O
ATOM	330	N	ALA A 167	272.031	-72.699	105.659	1.00	51.64	A	N
ATOM	331	CA	ALA A 167	272.445	-73.632	106.682	1.00	51.81	A	C
ATOM	332	CB	ALA A 167	273.293	-72.935	107.670	1.00	53.31	A	C
ATOM	333	C	ALA A 167	271.234	-74.240	107.369	1.00	53.85	A	C
ATOM	334	O	ALA A 167	271.105	-75.457	107.454	1.00	57.18	A	O
ATOM	335	N	GLN A 168	270.318	-73.403	107.833	1.00	59.28	A	N
ATOM	336	CA	GLN A 168	269.139	-73.902	108.534	1.00	59.95	A	C
ATOM	337	CB	GLN A 168	268.348	-72.736	109.131	1.00	66.12	A	C
ATOM	338	CG	GLN A 168	268.398	-72.648	110.644	1.00	72.61	A	C
ATOM	339	CD	GLN A 168	267.038	-72.270	111.248	1.00	77.64	A	C
ATOM	340	OE1	GLN A 168	266.542	-72.938	112.173	1.00	76.82	A	O
ATOM	341	NE2	GLN A 168	266.432	-71.196	110.727	1.00	72.17	A	N
ATOM	342	C	GLN A 168	268.221	-74.718	107.635	1.00	55.73	A	C

ATOM	343	O	GLN A	168	267.646	-75.736	108.043	1.00	53.22	A	O
ATOM	344	N	LEU A	169	268.076	-74.262	106.404	1.00	47.44	A	N
ATOM	345	CA	LEU A	169	267.214	-74.954	105.430	1.00	53.18	A	C
ATOM	346	CB	LEU A	169	267.236	-74.247	104.084	1.00	46.05	A	C
ATOM	347	CG	LEU A	169	266.495	-72.939	104.055	1.00	47.35	A	C
ATOM	348	CD1	LEU A	169	266.858	-72.184	102.803	1.00	45.64	A	C
ATOM	349	CD2	LEU A	169	265.005	-73.224	104.130	1.00	44.94	A	C
ATOM	350	C	LEU A	169	267.743	-76.381	105.180	1.00	53.79	A	C
ATOM	351	O	LEU A	169	266.983	-77.361	105.065	1.00	54.87	A	O
ATOM	352	N	GLU A	170	269.057	-76.488	105.056	1.00	54.40	A	N
ATOM	353	CA	GLU A	170	269.692	-77.771	104.839	1.00	58.30	A	C
ATOM	354	CB	GLU A	170	271.162	-77.587	104.678	1.00	57.36	A	C
ATOM	355	CG	GLU A	170	271.585	-77.158	103.319	1.00	66.04	A	C
ATOM	356	CD	GLU A	170	273.099	-76.836	103.260	1.00	73.19	A	C
ATOM	357	OE1	GLU A	170	273.912	-77.755	103.560	1.00	76.86	A	O
ATOM	358	OE2	GLU A	170	273.473	-75.670	102.918	1.00	77.40	A	O
ATOM	359	C	GLU A	170	269.481	-78.643	106.045	1.00	60.58	A	C
ATOM	360	O	GLU A	170	268.882	-79.730	105.913	1.00	71.27	A	O
ATOM	361	N	LYS A	171	269.931	-78.162	107.207	1.00	59.38	A	N
ATOM	362	CA	LYS A	171	269.817	-78.942	108.423	1.00	59.74	A	C
ATOM	363	CB	LYS A	171	270.264	-78.118	109.600	1.00	58.50	A	C
ATOM	364	C	LYS A	171	268.409	-79.500	108.655	1.00	62.87	A	C
ATOM	365	O	LYS A	171	268.227	-80.438	109.441	1.00	65.46	A	O
ATOM	366	N	ALA A	172	267.417	-78.939	107.970	1.00	58.04	A	N
ATOM	367	CA	ALA A	172	266.044	-79.373	108.153	1.00	55.58	A	C
ATOM	368	CB	ALA A	172	265.139	-78.157	108.445	1.00	44.25	A	C
ATOM	369	C	ALA A	172	265.506	-80.129	106.962	1.00	57.83	A	C
ATOM	370	O	ALA A	172	264.406	-80.699	107.038	1.00	63.97	A	O
ATOM	371	N	GLY A	173	266.255	-80.108	105.860	1.00	59.05	A	N
ATOM	372	CA	GLY A	173	265.825	-80.806	104.659	1.00	58.57	A	C
ATOM	373	C	GLY A	173	264.519	-80.290	104.096	1.00	56.33	A	C
ATOM	374	O	GLY A	173	263.636	-81.045	103.722	1.00	57.22	A	O
ATOM	375	N	VAL A	174	264.392	-78.983	104.043	1.00	52.27	A	N
ATOM	376	CA	VAL A	174	263.183	-78.389	103.520	1.00	51.67	A	C
ATOM	377	CB	VAL A	174	262.555	-77.420	104.523	1.00	44.57	A	C
ATOM	378	CG1	VAL A	174	262.061	-78.172	105.687	1.00	45.83	A	C
ATOM	379	CG2	VAL A	174	263.557	-76.374	104.919	1.00	43.22	A	C
ATOM	380	C	VAL A	174	263.518	-77.628	102.230	1.00	55.27	A	C
ATOM	381	O	VAL A	174	262.825	-76.679	101.851	1.00	62.81	A	O
ATOM	382	N	GLU A	175	264.577	-78.044	101.548	1.00	50.98	A	N
ATOM	383	CA	GLU A	175	264.955	-77.393	100.296	1.00	52.00	A	C
ATOM	384	CB	GLU A	175	266.251	-77.994	99.721	1.00	47.79	A	C
ATOM	385	CG	GLU A	175	267.462	-77.861	100.680	1.00	59.64	A	C
ATOM	386	CD	GLU A	175	267.730	-79.101	101.479	1.00	59.83	A	C
ATOM	387	OE1	GLU A	175	266.822	-79.948	101.619	1.00	66.12	A	C
ATOM	388	OE2	GLU A	175	268.853	-79.219	101.990	1.00	70.43	A	O
ATOM	389	C	GLU A	175	263.852	-77.526	99.266	1.00	51.17	A	C
ATOM	390	O	GLU A	175	263.637	-76.642	98.463	1.00	57.75	A	O
ATOM	391	N	HIS A	176	263.166	-78.661	99.266	1.00	60.20	A	N
ATOM	392	CA	HIS A	176	262.080	-78.920	98.312	1.00	61.34	A	C
ATOM	393	CB	HIS A	176	261.735	-80.414	98.276	1.00	62.47	A	C
ATOM	394	CG	HIS A	176	261.265	-80.959	99.579	1.00	70.92	A	C
ATOM	395	CD2	HIS A	176	261.875	-81.020	100.783	1.00	68.70	A	C
ATOM	396	ND1	HIS A	176	260.020	-81.533	99.740	1.00	72.07	A	C
ATOM	397	CE1	HIS A	176	259.886	-81.925	100.994	1.00	75.43	A	N
ATOM	398	NE2	HIS A	176	260.996	-81.625	101.644	1.00	77.22	A	C
ATOM	399	C	HIS A	176	260.828	-78.116	98.620	1.00	60.76	A	C
ATOM	400	O	HIS A	176	260.058	-77.805	97.733	1.00	64.86	A	O
ATOM	401	N	GLN A	177	260.607	-77.784	99.886	1.00	63.60	A	N
ATOM	402	CA	GLN A	177	259.436	-76.993	100.239	1.00	59.32	A	C
ATOM	403	CB	GLN A	177	259.188	-77.080	101.756	1.00	65.79	A	C
ATOM	404	CG	GLN A	177	258.573	-78.484	102.090	1.00	78.25	A	C
ATOM	405	CD	GLN A	177	258.481	-78.896	103.539	1.00	84.93	A	C
ATOM	406	OE1	GLN A	177	257.670	-79.822	103.897	1.00	89.62	A	O
ATOM	407	NE2	GLN A	177	259.316	-78.274	104.407	1.00	87.76	A	N
ATOM	408	C	GLN A	177	259.647	-75.552	99.730	1.00	54.25	A	C
ATOM	409	O	GLN A	177	258.739	-75.013	99.073	1.00	51.39	A	O
ATOM	410	N	LEU A	178	260.844	-74.972	99.942	1.00	45.84	A	N
ATOM	411	CA	LEU A	178	261.123	-73.611	99.474	1.00	49.49	A	C
ATOM	412	CB	LEU A	178	262.514	-73.175	99.900	1.00	42.21	A	C

ATOM	413	CG	LEU A	178	263.032	-71.858	99.325	1.00	49.26	A	C
ATOM	414	CD1	LEU A	178	261.981	-70.693	99.584	1.00	37.20	A	C
ATOM	415	CD2	LEU A	178	264.421	-71.557	99.950	1.00	46.43	A	C
ATOM	416	C	LEU A	178	261.030	-73.631	97.939	1.00	46.87	A	C
ATOM	417	O	LEU A	178	260.678	-72.659	97.280	1.00	52.87	A	O
ATOM	418	N	ARG A	179	261.314	-74.778	97.360	1.00	52.38	A	N
ATOM	419	CA	ARG A	179	261.258	-74.887	95.908	1.00	48.78	A	C
ATOM	420	CB	ARG A	179	261.877	-76.207	95.443	1.00	55.74	A	C
ATOM	421	CG	ARG A	179	262.661	-76.085	94.149	1.00	55.19	A	C
ATOM	422	CD	ARG A	179	263.898	-77.002	94.178	1.00	71.41	A	C
ATOM	423	NE	ARG A	179	264.829	-76.685	93.086	1.00	73.48	A	N
ATOM	424	CZ	ARG A	179	264.827	-77.258	91.873	1.00	77.16	A	C
ATOM	425	NH1	ARG A	179	263.941	-78.208	91.565	1.00	70.26	A	N
ATOM	426	NH2	ARG A	179	265.709	-76.874	90.951	1.00	75.62	A	N
ATOM	427	C	ARG A	179	259.841	-74.758	95.383	1.00	46.80	A	C
ATOM	428	O	ARG A	179	259.605	-74.009	94.443	1.00	37.96	A	O
ATOM	429	N	ARG A	180	258.912	-75.494	95.988	1.00	41.56	A	N
ATOM	430	CA	ARG A	180	257.504	-75.451	95.630	1.00	46.45	A	C
ATOM	431	CB	ARG A	180	256.749	-76.543	96.386	1.00	47.01	A	C
ATOM	432	CG	ARG A	180	256.416	-77.762	95.546	1.00	51.52	A	C
ATOM	433	CD	ARG A	180	255.582	-78.783	96.257	1.00	53.97	A	C
ATOM	434	NE	ARG A	180	256.374	-79.863	96.824	1.00	69.57	A	N
ATOM	435	CZ	ARG A	180	256.902	-79.849	98.046	1.00	76.20	A	C
ATOM	436	NH1	ARG A	180	256.721	-78.796	98.846	1.00	85.82	A	N
ATOM	437	NH2	ARG A	180	257.614	-80.893	98.475	1.00	82.98	A	N
ATOM	438	C	ARG A	180	256.882	-74.100	95.969	1.00	48.19	A	C
ATOM	439	O	ARG A	180	256.088	-73.556	95.169	1.00	55.26	A	O
ATOM	440	N	GLU A	181	257.235	-73.560	97.130	1.00	49.77	A	N
ATOM	441	CA	GLU A	181	256.694	-72.279	97.536	1.00	48.24	A	C
ATOM	442	CB	GLU A	181	257.367	-71.820	98.841	1.00	51.28	A	C
ATOM	443	CG	GLU A	181	256.969	-70.425	99.303	1.00	55.39	A	C
ATOM	444	CD	GLU A	181	257.553	-70.042	100.652	1.00	57.20	A	C
ATOM	445	OE1	GLU A	181	258.173	-70.904	101.305	1.00	46.80	A	O
ATOM	446	OE2	GLU A	181	257.362	-68.871	101.058	1.00	56.40	A	O
ATOM	447	C	GLU A	181	256.958	-71.259	96.430	1.00	49.63	A	C
ATOM	448	O	GLU A	181	256.044	-70.571	95.930	1.00	44.79	A	O
ATOM	449	N	VAL A	182	258.227	-71.191	96.037	1.00	46.11	A	N
ATOM	450	CA	VAL A	182	258.659	-70.228	95.035	1.00	45.55	A	C
ATOM	451	CB	VAL A	182	260.183	-70.266	94.833	1.00	40.91	A	C
ATOM	452	CG1	VAL A	182	260.560	-69.403	93.678	1.00	38.12	A	C
ATOM	453	CG2	VAL A	182	260.875	-69.730	96.059	1.00	51.08	A	C
ATOM	454	C	VAL A	182	257.954	-70.443	93.695	1.00	46.82	A	C
ATOM	455	O	VAL A	182	257.459	-69.483	93.056	1.00	40.29	A	O
ATOM	456	N	GLU A	183	257.936	-71.690	93.237	1.00	48.08	A	N
ATOM	457	CA	GLU A	183	257.280	-72.012	91.968	1.00	52.62	A	C
ATOM	458	CB	GLU A	183	257.493	-73.478	91.608	1.00	56.60	A	C
ATOM	459	CG	GLU A	183	258.695	-73.784	90.808	1.00	70.69	A	C
ATOM	460	CD	GLU A	183	258.923	-75.283	90.746	1.00	77.34	A	C
ATOM	461	OE1	GLU A	183	257.954	-76.011	90.397	1.00	83.76	A	O
ATOM	462	OE2	GLU A	183	260.068	-75.727	91.052	1.00	82.45	A	O
ATOM	463	C	GLU A	183	255.800	-71.754	91.912	1.00	49.85	A	C
ATOM	464	O	GLU A	183	255.313	-71.138	90.947	1.00	46.36	A	O
ATOM	465	N	ILE A	184	255.098	-72.317	92.898	1.00	46.74	A	N
ATOM	466	CA	ILE A	184	253.660	-72.157	92.965	1.00	43.86	A	C
ATOM	467	CB	ILE A	184	253.067	-72.962	94.115	1.00	40.26	A	C
ATOM	468	CG2	ILE A	184	251.553	-72.714	94.209	1.00	29.84	A	C
ATOM	469	CG1	ILE A	184	253.313	-74.446	93.860	1.00	36.80	A	C
ATOM	470	CD1	ILE A	184	252.748	-75.369	94.961	1.00	40.80	A	C
ATOM	471	C	ILE A	184	253.221	-70.713	93.099	1.00	46.29	A	C
ATOM	472	O	ILE A	184	252.448	-70.199	92.284	1.00	49.47	A	C
ATOM	473	N	GLN A	185	253.720	-70.054	94.132	1.00	49.28	A	O
ATOM	474	CA	GLN A	185	253.328	-68.666	94.388	1.00	52.47	A	N
ATOM	475	CB	GLN A	185	253.948	-68.189	95.721	1.00	44.73	A	C
ATOM	476	CG	GLN A	185	253.150	-67.168	96.526	1.00	48.30	A	C
ATOM	477	CD	GLN A	185	253.861	-66.745	97.745	1.00	54.47	A	C
ATOM	478	OE1	GLN A	185	254.700	-67.516	98.331	1.00	61.67	A	O
ATOM	479	NE2	GLN A	185	253.553	-65.501	98.201	1.00	56.50	A	N
ATOM	480	C	GLN A	185	253.707	-67.716	93.231	1.00	50.63	A	C
ATOM	481	O	GLN A	185	252.971	-66.780	92.894	1.00	52.61	A	O
ATOM	482	N	SER A	186	254.843	-67.972	92.610	1.00	47.27	A	N

ATOM	483	CA	SER A	186	255.315	-67.114	91.541	1.00	52.03	A	C
ATOM	484	CB	SER A	186	256.692	-67.586	91.048	1.00	51.09	A	C
ATOM	485	OG	SER A	186	256.609	-68.877	90.496	1.00	54.11	A	O
ATOM	486	C	SER A	186	254.346	-67.050	90.373	1.00	51.30	A	C
ATOM	487	O	SER A	186	254.116	-65.999	89.812	1.00	53.71	A	O
ATOM	488	N	HIS A	187	253.774	-68.184	90.001	1.00	55.86	A	N
ATOM	489	CA	HIS A	187	252.846	-68.233	88.883	1.00	57.28	A	C
ATOM	490	CB	HIS A	187	252.945	-69.605	88.190	1.00	68.44	A	C
ATOM	491	CG	HIS A	187	254.283	-69.866	87.541	1.00	77.26	A	C
ATOM	492	CD2	HIS A	187	255.147	-69.041	86.892	1.00	78.77	A	C
ATOM	493	ND1	HIS A	187	254.874	-71.114	87.532	1.00	80.45	A	N
ATOM	494	CE1	HIS A	187	256.041	-71.048	86.911	1.00	81.91	A	C
ATOM	495	NE2	HIS A	187	256.232	-69.802	86.512	1.00	81.51	A	N
ATOM	496	C	HIS A	187	251.418	-67.953	89.300	1.00	57.51	A	C
ATOM	497	O	HIS A	187	250.496	-68.154	88.529	1.00	60.26	A	O
ATOM	498	N	LEU A	188	251.230	-67.497	90.530	1.00	59.97	A	N
ATOM	499	CA	LEU A	188	249.900	-67.189	91.028	1.00	56.67	A	C
ATOM	500	CB	LEU A	188	249.832	-67.488	92.511	1.00	57.07	A	C
ATOM	501	CG	LEU A	188	248.970	-68.663	92.952	1.00	55.73	A	C
ATOM	502	CD1	LEU A	188	249.478	-69.896	92.257	1.00	62.61	A	C
ATOM	503	CD2	LEU A	188	249.027	-68.827	94.465	1.00	53.98	A	C
ATOM	504	C	LEU A	188	249.598	-65.728	90.777	1.00	57.85	A	C
ATOM	505	O	LEU A	188	250.503	-64.881	90.799	1.00	64.49	A	C
ATOM	506	N	ARG A	189	248.331	-65.440	90.507	1.00	59.25	A	N
ATOM	507	CA	ARG A	189	247.893	-64.067	90.239	1.00	63.66	A	C
ATOM	508	CB	ARG A	189	247.927	-63.796	88.734	1.00	64.78	A	C
ATOM	509	CG	ARG A	189	249.318	-63.660	88.125	1.00	70.33	A	C
ATOM	510	CD	ARG A	189	249.903	-62.285	88.356	1.00	72.14	A	C
ATOM	511	NE	ARG A	189	250.864	-61.937	87.301	1.00	81.14	A	N
ATOM	512	CZ	ARG A	189	250.716	-60.923	86.432	1.00	82.52	A	C
ATOM	513	NH1	ARG A	189	249.636	-60.138	86.478	1.00	79.99	A	N
ATOM	514	NH2	ARG A	189	251.658	-60.669	85.521	1.00	82.64	A	N
ATOM	515	C	ARG A	189	246.469	-63.844	90.761	1.00	59.43	A	N
ATOM	516	O	ARG A	189	245.497	-64.167	90.072	1.00	61.20	A	O
ATOM	517	N	HIS A	190	246.342	-63.283	91.964	1.00	56.49	A	N
ATOM	518	CA	HIS A	190	245.023	-63.075	92.565	1.00	48.34	A	C
ATOM	519	CB	HIS A	190	244.506	-64.377	93.201	1.00	52.70	A	C
ATOM	520	CG	HIS A	190	243.036	-64.372	93.489	1.00	49.06	A	C
ATOM	521	CD2	HIS A	190	242.038	-65.207	93.107	1.00	52.53	A	C
ATOM	522	ND1	HIS A	190	242.449	-63.432	94.302	1.00	51.06	A	N
ATOM	523	CE1	HIS A	190	241.155	-63.686	94.414	1.00	46.17	A	C
ATOM	524	NE2	HIS A	190	240.878	-64.757	93.697	1.00	43.53	A	N
ATOM	525	C	HIS A	190	245.116	-61.998	93.611	1.00	47.54	A	C
ATOM	526	O	HIS A	190	246.077	-61.946	94.377	1.00	44.41	A	O
ATOM	527	N	PRO A	191	244.119	-61.102	93.645	1.00	49.93	A	N
ATOM	528	CD	PRO A	191	242.947	-61.054	92.749	1.00	46.91	A	C
ATOM	529	CA	PRO A	191	244.070	-59.992	94.607	1.00	49.33	A	C
ATOM	530	CB	PRO A	191	242.694	-59.384	94.346	1.00	50.21	A	C
ATOM	531	CG	PRO A	191	242.518	-59.644	92.887	1.00	48.82	A	C
ATOM	532	C	PRO A	191	244.239	-60.419	96.072	1.00	46.55	A	C
ATOM	533	O	PRO A	191	244.892	-59.719	96.848	1.00	42.94	A	O
ATOM	534	N	ASN A	192	243.647	-61.555	96.434	1.00	42.75	A	N
ATOM	535	CA	ASN A	192	243.715	-62.060	97.791	1.00	48.46	A	C
ATOM	536	CB	ASN A	192	242.378	-62.678	98.192	1.00	45.61	A	C
ATOM	537	CG	ASN A	192	241.206	-61.781	97.847	1.00	48.26	A	C
ATOM	538	OD1	ASN A	192	240.715	-61.767	96.724	1.00	55.77	A	O
ATOM	539	ND2	ASN A	192	240.766	-61.020	98.804	1.00	48.89	A	N
ATOM	540	C	ASN A	192	244.831	-63.085	97.953	1.00	44.35	A	C
ATOM	541	O	ASN A	192	244.725	-64.017	98.747	1.00	54.33	A	O
ATOM	542	N	ILE A	193	245.909	-62.901	97.204	1.00	42.87	A	N
ATOM	543	CA	ILE A	193	247.067	-63.781	97.277	1.00	40.40	A	C
ATOM	544	CB	ILE A	193	247.054	-64.847	96.138	1.00	40.53	A	C
ATOM	545	CG2	ILE A	193	248.292	-65.733	96.243	1.00	22.41	A	C
ATOM	546	CG1	ILE A	193	245.800	-65.732	96.274	1.00	36.30	A	C
ATOM	547	CD1	ILE A	193	245.709	-66.793	95.246	1.00	46.23	A	C
ATOM	548	C	ILE A	193	248.330	-62.944	97.180	1.00	43.53	A	C
ATOM	549	O	ILE A	193	248.481	-62.176	96.228	1.00	41.20	A	O
ATOM	550	N	LEU A	194	249.217	-63.070	98.171	1.00	46.32	A	N
ATOM	551	CA	LEU A	194	250.449	-62.307	98.168	1.00	48.93	A	C
ATOM	552	CB	LEU A	194	251.233	-62.511	99.477	1.00	44.51	A	C

ATOM	553	CG	LEU	A	194	252.485	-61.630	99.579	1.00	41.08	A	C
ATOM	554	CD1	LEU	A	194	252.055	-60.195	99.956	1.00	43.64	A	C
ATOM	555	CD2	LEU	A	194	253.437	-62.183	100.655	1.00	41.05	A	C
ATOM	556	C	LEU	A	194	251.290	-62.773	96.988	1.00	49.00	A	C
ATOM	557	O	LEU	A	194	251.553	-63.975	96.826	1.00	53.77	A	O
ATOM	558	N	ARG	A	195	251.712	-61.823	96.162	1.00	43.08	A	N
ATOM	559	CA	ARG	A	195	252.553	-62.166	95.023	1.00	45.19	A	C
ATOM	560	CB	ARG	A	195	252.509	-61.043	93.969	1.00	43.15	A	C
ATOM	561	CG	ARG	A	195	251.180	-60.913	93.213	1.00	46.56	A	C
ATOM	562	CD	ARG	A	195	251.400	-60.798	91.730	1.00	59.57	A	C
ATOM	563	NE	ARG	A	195	252.816	-60.787	91.377	1.00	72.51	A	N
ATOM	564	CZ	ARG	A	195	253.288	-60.716	90.133	1.00	78.66	A	C
ATOM	565	NH1	ARG	A	195	252.446	-60.646	89.119	1.00	80.03	A	N
ATOM	566	NH2	ARG	A	195	254.603	-60.723	89.898	1.00	82.29	A	C
ATOM	567	C	ARG	A	195	254.004	-62.450	95.390	1.00	44.60	A	N
ATOM	568	O	ARG	A	195	254.470	-62.001	96.429	1.00	47.11	A	O
ATOM	569	N	LEU	A	196	254.710	-63.177	94.522	1.00	48.18	A	N
ATOM	570	CA	LEU	A	196	256.116	-63.465	94.735	1.00	48.30	A	C
ATOM	571	CB	LEU	A	196	256.345	-64.954	95.048	1.00	50.39	A	C
ATOM	572	CG	LEU	A	196	257.768	-65.343	95.383	1.00	41.45	A	C
ATOM	573	CD1	LEU	A	196	258.090	-64.804	96.698	1.00	58.09	A	C
ATOM	574	CD2	LEU	A	196	257.886	-66.788	95.411	1.00	44.21	A	C
ATOM	575	C	LEU	A	196	256.799	-63.091	93.432	1.00	50.04	A	C
ATOM	576	O	LEU	A	196	256.887	-63.926	92.532	1.00	56.48	A	C
ATOM	577	N	TYR	A	197	257.301	-61.854	93.359	1.00	52.17	A	O
ATOM	578	CA	TYR	A	197	257.970	-61.330	92.172	1.00	49.64	A	C
ATOM	579	CB	TYR	A	197	258.419	-59.908	92.460	1.00	44.72	A	C
ATOM	580	CG	TYR	A	197	257.289	-59.034	92.959	1.00	43.03	A	C
ATOM	581	CD1	TYR	A	197	257.445	-58.246	94.117	1.00	44.46	A	C
ATOM	582	CE1	TYR	A	197	256.439	-57.433	94.583	1.00	51.15	A	C
ATOM	583	CD2	TYR	A	197	256.085	-58.978	92.278	1.00	41.30	A	C
ATOM	584	CE2	TYR	A	197	255.057	-58.161	92.730	1.00	50.46	A	C
ATOM	585	CZ	TYR	A	197	255.243	-57.390	93.887	1.00	52.65	A	C
ATOM	586	OH	TYR	A	197	254.234	-56.573	94.338	1.00	63.16	A	O
ATOM	587	C	TYR	A	197	259.142	-62.186	91.684	1.00	51.16	A	O
ATOM	588	O	TYR	A	197	259.129	-62.683	90.572	1.00	58.21	A	O
ATOM	589	N	GLY	A	198	260.141	-62.378	92.529	1.00	53.24	A	N
ATOM	590	CA	GLY	A	198	261.296	-63.164	92.148	1.00	47.33	A	C
ATOM	591	C	GLY	A	198	262.028	-63.697	93.360	1.00	48.93	A	C
ATOM	592	O	GLY	A	198	261.447	-63.928	94.412	1.00	49.80	A	O
ATOM	593	N	TYR	A	199	263.316	-63.941	93.204	1.00	48.77	A	N
ATOM	594	CA	TYR	A	199	264.134	-64.436	94.315	1.00	50.98	A	C
ATOM	595	CB	TYR	A	199	263.712	-65.834	94.699	1.00	54.11	A	C
ATOM	596	CG	TYR	A	199	264.323	-66.921	93.853	1.00	56.57	A	C
ATOM	597	CD1	TYR	A	199	265.506	-67.521	94.238	1.00	57.21	A	C
ATOM	598	CE1	TYR	A	199	266.088	-68.526	93.471	1.00	58.18	A	C
ATOM	599	CD2	TYR	A	199	263.715	-67.351	92.664	1.00	59.67	A	C
ATOM	600	CE2	TYR	A	199	264.286	-68.349	91.899	1.00	59.17	A	C
ATOM	601	CZ	TYR	A	199	265.479	-68.933	92.308	1.00	59.36	A	C
ATOM	602	OH	TYR	A	199	266.075	-69.917	91.535	1.00	63.54	A	O
ATOM	603	C	TYR	A	199	265.563	-64.463	93.826	1.00	48.41	A	C
ATOM	604	O	TYR	A	199	265.787	-64.357	92.640	1.00	47.41	A	O
ATOM	605	N	PHE	A	200	266.542	-64.591	94.701	1.00	43.25	A	O
ATOM	606	CA	PHE	A	200	267.921	-64.582	94.221	1.00	40.67	A	N
ATOM	607	CB	PHE	A	200	268.427	-63.159	93.950	1.00	43.34	A	C
ATOM	608	CG	PHE	A	200	268.272	-62.218	95.134	1.00	48.79	A	C
ATOM	609	CD1	PHE	A	200	269.249	-62.115	96.166	1.00	50.06	A	C
ATOM	610	CD2	PHE	A	200	267.178	-61.322	95.162	1.00	52.88	A	C
ATOM	611	CE1	PHE	A	200	269.107	-61.097	97.192	1.00	53.41	A	C
ATOM	612	CE2	PHE	A	200	267.048	-60.331	96.166	1.00	49.85	A	C
ATOM	613	CZ	PHE	A	200	267.993	-60.201	97.160	1.00	49.27	A	C
ATOM	614	C	PHE	A	200	268.645	-65.113	95.325	1.00	47.09	A	C
ATOM	615	O	PHE	A	200	268.037	-65.599	96.262	1.00	47.13	A	O
ATOM	616	N	HIS	A	201	269.953	-65.125	95.219	1.00	56.46	A	N
ATOM	617	CA	HIS	A	201	270.635	-65.604	96.382	1.00	56.94	A	C
ATOM	618	CB	HIS	A	201	270.242	-67.052	96.679	1.00	62.89	A	C
ATOM	619	CG	HIS	A	201	270.668	-68.030	95.648	1.00	66.27	A	C
ATOM	620	CD2	HIS	A	201	270.131	-68.454	94.469	1.00	68.86	A	C
ATOM	621	ND1	HIS	A	201	271.876	-68.658	95.778	1.00	70.42	A	N
ATOM	622	CE1	HIS	A	201	272.086	-69.425	94.727	1.00	63.77	A	C

ATOM	623	NE2	HIS	A	201	271.048	-69.319	93.917	1.00	69.53	A	N
ATOM	624	C	HIS	A	201	272.082	-65.339	96.531	1.00	59.01	A	C
ATOM	625	O	HIS	A	201	272.657	-64.604	95.737	1.00	56.46	A	O
ATOM	626	N	ASP	A	202	272.636	-65.783	97.652	1.00	53.50	A	N
ATOM	627	CA	ASP	A	202	274.052	-65.546	97.850	1.00	58.12	A	C
ATOM	628	CB	ASP	A	202	274.321	-64.225	98.617	1.00	61.13	A	C
ATOM	629	CG	ASP	A	202	273.888	-64.255	100.090	1.00	65.37	A	C
ATOM	630	OD1	ASP	A	202	273.969	-65.308	100.803	1.00	69.09	A	O
ATOM	631	OD2	ASP	A	202	273.489	-63.181	100.569	1.00	73.25	A	O
ATOM	632	C	ASP	A	202	274.782	-66.745	98.522	1.00	59.73	A	C
ATOM	633	O	ASP	A	202	274.357	-67.899	98.426	1.00	61.93	A	O
ATOM	634	N	ALA	A	203	275.910	-66.473	99.163	1.00	59.60	A	N
ATOM	635	CA	ALA	A	203	276.705	-67.507	99.793	1.00	59.87	A	C
ATOM	636	CB	ALA	A	203	278.079	-66.933	100.191	1.00	57.31	A	C
ATOM	637	C	ALA	A	203	276.068	-68.138	100.990	1.00	60.08	A	C
ATOM	638	O	ALA	A	203	276.287	-69.294	101.229	1.00	62.79	A	O
ATOM	639	N	THR	A	204	275.291	-67.377	101.748	1.00	60.13	A	N
ATOM	640	CA	THR	A	204	274.700	-67.893	102.968	1.00	58.14	A	C
ATOM	641	CB	THR	A	204	275.067	-67.010	104.168	1.00	54.92	A	C
ATOM	642	OG1	THR	A	204	275.068	-65.622	103.799	1.00	51.82	A	O
ATOM	643	CG2	THR	A	204	276.406	-67.388	104.681	1.00	55.25	A	C
ATOM	644	C	THR	A	204	273.203	-68.070	102.993	1.00	61.74	A	C
ATOM	645	O	THR	A	204	272.662	-69.063	103.547	1.00	66.23	A	C
ATOM	646	N	ARG	A	205	272.517	-67.099	102.434	1.00	58.56	A	O
ATOM	647	CA	ARG	A	205	271.091	-67.217	102.444	1.00	58.96	A	C
ATOM	648	CB	ARG	A	205	270.505	-66.287	103.493	1.00	56.07	A	C
ATOM	649	CG	ARG	A	205	270.986	-64.877	103.382	1.00	59.74	A	C
ATOM	650	CD	ARG	A	205	271.764	-64.493	104.616	1.00	62.84	A	C
ATOM	651	NE	ARG	A	205	272.739	-63.462	104.285	1.00	73.59	A	N
ATOM	652	CZ	ARG	A	205	273.407	-62.747	105.185	1.00	79.55	A	C
ATOM	653	NH1	ARG	A	205	273.198	-62.946	106.482	1.00	80.70	A	N
ATOM	654	NH2	ARG	A	205	274.297	-61.845	104.792	1.00	87.21	A	N
ATOM	655	C	ARG	A	205	270.418	-67.012	101.120	1.00	56.37	A	C
ATOM	656	O	ARG	A	205	271.034	-66.604	100.116	1.00	64.50	A	O
ATOM	657	N	VAL	A	206	269.150	-67.373	101.124	1.00	54.49	A	N
ATOM	658	CA	VAL	A	206	268.304	-67.238	99.960	1.00	50.29	A	C
ATOM	659	CB	VAL	A	206	267.536	-68.522	99.670	1.00	47.01	A	C
ATOM	660	CG1	VAL	A	206	266.800	-68.370	98.374	1.00	38.39	A	C
ATOM	661	CG2	VAL	A	206	268.488	-69.696	99.620	1.00	42.93	A	C
ATOM	662	C	VAL	A	206	267.306	-66.124	100.321	1.00	50.23	A	C
ATOM	663	O	VAL	A	206	266.870	-65.982	101.487	1.00	49.82	A	O
ATOM	664	N	TYR	A	207	266.958	-65.330	99.320	1.00	47.64	A	N
ATOM	665	CA	TYR	A	207	266.053	-64.226	99.517	1.00	47.19	A	C
ATOM	666	CB	TYR	A	207	266.748	-62.879	99.204	1.00	44.49	A	C
ATOM	667	CG	TYR	A	207	268.077	-62.684	99.852	1.00	52.24	A	C
ATOM	668	CD1	TYR	A	207	269.198	-63.362	99.385	1.00	51.97	A	C
ATOM	669	CE1	TYR	A	207	270.438	-63.194	99.978	1.00	60.89	A	C
ATOM	670	CD2	TYR	A	207	268.227	-61.820	100.938	1.00	55.49	A	C
ATOM	671	CE2	TYR	A	207	269.499	-61.638	101.553	1.00	62.31	A	C
ATOM	672	CZ	TYR	A	207	270.583	-62.327	101.069	1.00	60.88	A	C
ATOM	673	OH	TYR	A	207	271.783	-62.141	101.704	1.00	68.24	A	O
ATOM	674	C	TYR	A	207	264.837	-64.374	98.618	1.00	42.31	A	C
ATOM	675	O	TYR	A	207	264.940	-64.704	97.438	1.00	43.03	A	C
ATOM	676	N	LEU	A	208	263.671	-64.078	99.171	1.00	47.18	A	O
ATOM	677	CA	LEU	A	208	262.441	-64.129	98.377	1.00	49.66	A	N
ATOM	678	CB	LEU	A	208	261.411	-65.084	99.005	1.00	50.68	A	C
ATOM	679	CG	LEU	A	208	261.731	-66.573	98.967	1.00	50.97	A	C
ATOM	680	CD1	LEU	A	208	260.525	-67.349	99.471	1.00	51.61	A	C
ATOM	681	CD2	LEU	A	208	262.019	-66.964	97.575	1.00	53.77	A	C
ATOM	682	C	LEU	A	208	261.849	-62.733	98.264	1.00	50.25	A	C
ATOM	683	O	LEU	A	208	261.525	-62.085	99.278	1.00	54.78	A	O
ATOM	684	N	ILE	A	209	261.692	-62.286	97.027	1.00	50.37	A	N
ATOM	685	CA	ILE	A	209	261.154	-60.971	96.752	1.00	49.74	A	C
ATOM	686	CB	ILE	A	209	261.695	-60.499	95.420	1.00	50.44	A	C
ATOM	687	CG2	ILE	A	209	261.168	-59.096	95.082	1.00	50.97	A	C
ATOM	688	CG1	ILE	A	209	263.225	-60.485	95.511	1.00	49.66	A	C
ATOM	689	CD1	ILE	A	209	263.919	-60.607	94.181	1.00	51.66	A	C
ATOM	690	C	ILE	A	209	259.624	-61.075	96.749	1.00	51.17	A	C
ATOM	691	O	ILE	A	209	259.048	-61.543	95.755	1.00	54.45	A	O
ATOM	692	N	LEU	A	210	258.981	-60.655	97.854	1.00	47.03	A	N

ATOM	693	CA	LEU	A	210	257.530	-60.728	97.990	1.00	43.40	A	C
ATOM	694	CB	LEU	A	210	257.164	-61.286	99.362	1.00	43.91	A	C
ATOM	695	CG	LEU	A	210	257.762	-62.625	99.773	1.00	42.46	A	C
ATOM	696	CD1	LEU	A	210	257.695	-62.764	101.264	1.00	44.44	A	C
ATOM	697	CD2	LEU	A	210	257.029	-63.701	99.100	1.00	44.23	A	C
ATOM	698	C	LEU	A	210	256.873	-59.393	97.827	1.00	42.69	A	C
ATOM	699	O	LEU	A	210	257.528	-58.371	97.627	1.00	50.83	A	O
ATOM	700	N	GLU	A	211	255.552	-59.403	97.901	1.00	45.93	A	N
ATOM	701	CA	GLU	A	211	254.757	-58.173	97.813	1.00	41.90	A	C
ATOM	702	CB	GLU	A	211	253.383	-58.471	97.201	1.00	39.85	A	C
ATOM	703	CG	GLU	A	211	252.402	-57.354	97.290	1.00	41.17	A	C
ATOM	704	CD	GLU	A	211	250.976	-57.788	96.890	1.00	51.54	A	C
ATOM	705	OE1	GLU	A	211	250.012	-56.980	97.025	1.00	57.54	A	O
ATOM	706	OE2	GLU	A	211	250.798	-58.950	96.438	1.00	52.59	A	O
ATOM	707	C	GLU	A	211	254.608	-57.669	99.259	1.00	38.67	A	O
ATOM	708	O	GLU	A	211	254.507	-58.477	100.200	1.00	42.39	A	O
ATOM	709	N	TYR	A	212	254.619	-56.346	99.428	1.00	43.63	A	N
ATOM	710	CA	TYR	A	212	254.500	-55.725	100.757	1.00	47.96	A	C
ATOM	711	CB	TYR	A	212	255.181	-54.338	100.753	1.00	46.03	A	C
ATOM	712	CG	TYR	A	212	255.029	-53.534	102.025	1.00	44.95	A	C
ATOM	713	CD1	TYR	A	212	255.255	-54.104	103.259	1.00	42.54	A	C
ATOM	714	CE1	TYR	A	212	255.084	-53.363	104.429	1.00	48.54	A	C
ATOM	715	CD2	TYR	A	212	254.639	-52.193	101.984	1.00	44.86	A	C
ATOM	716	CE2	TYR	A	212	254.473	-51.424	103.164	1.00	50.04	A	C
ATOM	717	CZ	TYR	A	212	254.693	-52.019	104.372	1.00	48.45	A	C
ATOM	718	OH	TYR	A	212	254.523	-51.276	105.514	1.00	53.45	A	O
ATOM	719	C	TYR	A	212	253.041	-55.618	101.248	1.00	50.57	A	C
ATOM	720	O	TYR	A	212	252.153	-55.140	100.508	1.00	51.02	A	O
ATOM	721	N	ALA	A	213	252.799	-56.105	102.475	1.00	48.23	A	N
ATOM	722	CA	ALA	A	213	251.459	-56.040	103.078	1.00	51.96	A	C
ATOM	723	CB	ALA	A	213	251.084	-57.386	103.656	1.00	42.77	A	C
ATOM	724	C	ALA	A	213	251.528	-54.973	104.177	1.00	46.25	A	C
ATOM	725	O	ALA	A	213	251.958	-55.259	105.280	1.00	57.39	A	O
ATOM	726	N	PRO	A	214	251.109	-53.734	103.869	1.00	45.44	A	N
ATOM	727	CD	PRO	A	214	250.592	-53.315	102.549	1.00	45.81	A	C
ATOM	728	CA	PRO	A	214	251.118	-52.597	104.782	1.00	37.64	A	C
ATOM	729	CB	PRO	A	214	250.400	-51.512	103.991	1.00	44.41	A	C
ATOM	730	CG	PRO	A	214	250.755	-51.821	102.584	1.00	45.51	A	C
ATOM	731	C	PRO	A	214	250.481	-52.833	106.112	1.00	39.63	A	C
ATOM	732	O	PRO	A	214	251.116	-52.486	107.123	1.00	38.67	A	O
ATOM	733	N	LEU	A	215	249.287	-53.446	106.124	1.00	33.01	A	N
ATOM	734	CA	LEU	A	215	248.570	-53.617	107.371	1.00	35.54	A	C
ATOM	735	CB	LEU	A	215	247.074	-53.585	107.083	1.00	39.80	A	C
ATOM	736	CG	LEU	A	215	246.571	-52.332	106.331	1.00	39.22	A	C
ATOM	737	CD1	LEU	A	215	245.025	-52.236	106.407	1.00	37.56	A	C
ATOM	738	CD2	LEU	A	215	247.156	-51.166	106.898	1.00	36.39	A	C
ATOM	739	C	LEU	A	215	248.923	-54.805	108.248	1.00	43.21	A	C
ATOM	740	O	LEU	A	215	248.208	-55.121	109.220	1.00	39.03	A	O
ATOM	741	N	GLY	A	216	250.022	-55.466	107.906	1.00	42.62	A	N
ATOM	742	CA	GLY	A	216	250.443	-56.630	108.669	1.00	46.42	A	C
ATOM	743	C	GLY	A	216	249.594	-57.891	108.554	1.00	44.15	A	C
ATOM	744	O	GLY	A	216	248.995	-58.166	107.504	1.00	46.45	A	C
ATOM	745	N	THR	A	217	249.523	-58.640	109.656	1.00	39.98	A	O
ATOM	746	CA	THR	A	217	248.774	-59.889	109.669	1.00	43.21	A	N
ATOM	747	CB	THR	A	217	249.583	-61.040	110.286	1.00	43.67	A	C
ATOM	748	OG1	THR	A	217	249.791	-60.782	111.678	1.00	51.00	A	C
ATOM	749	CG2	THR	A	217	250.905	-61.201	109.605	1.00	41.04	A	O
ATOM	750	C	THR	A	217	247.450	-59.858	110.416	1.00	42.99	A	C
ATOM	751	O	THR	A	217	247.185	-58.962	111.227	1.00	41.59	A	O
ATOM	752	N	VAL	A	218	246.646	-60.881	110.166	1.00	41.73	A	N
ATOM	753	CA	VAL	A	218	245.335	-61.037	110.766	1.00	41.12	A	C
ATOM	754	CB	VAL	A	218	244.564	-62.091	109.970	1.00	41.84	A	C
ATOM	755	CG1	VAL	A	218	243.170	-62.251	110.488	1.00	43.61	A	C
ATOM	756	CG2	VAL	A	218	244.544	-61.670	108.463	1.00	33.71	A	C
ATOM	757	C	VAL	A	218	245.610	-61.486	112.201	1.00	40.94	A	C
ATOM	758	O	VAL	A	218	244.789	-61.326	113.078	1.00	51.00	A	O
ATOM	759	N	TYR	A	219	246.801	-62.026	112.429	1.00	45.88	A	N
ATOM	760	CA	TYR	A	219	247.233	-62.484	113.757	1.00	42.54	A	C
ATOM	761	CB	TYR	A	219	248.607	-63.148	113.673	1.00	45.91	A	C
ATOM	762	CG	TYR	A	219	249.102	-63.676	115.011	1.00	46.80	A	C

ATOM	763	CD1	TYR A 219	248.755	-64.925	115.464	1.00	45.83	A	C
ATOM	764	CE1	TYR A 219	249.176	-65.377	116.693	1.00	53.23	A	C
ATOM	765	CD2	TYR A 219	249.884	-62.892	115.825	1.00	46.38	A	C
ATOM	766	CE2	TYR A 219	250.310	-63.314	117.053	1.00	52.61	A	C
ATOM	767	CZ	TYR A 219	249.961	-64.565	117.510	1.00	53.76	A	C
ATOM	768	OH	TYR A 219	250.361	-64.985	118.789	1.00	54.10	A	O
ATOM	769	C	TYR A 219	247.323	-61.287	114.702	1.00	44.93	A	C
ATOM	770	O	TYR A 219	246.745	-61.322	115.825	1.00	40.09	A	O
ATOM	771	N	ARG A 220	248.031	-60.243	114.240	1.00	37.14	A	N
ATOM	772	CA	ARG A 220	248.172	-59.035	115.029	1.00	44.63	A	C
ATOM	773	CB	ARG A 220	249.213	-58.086	114.396	1.00	42.95	A	C
ATOM	774	C	ARG A 220	246.828	-58.318	115.225	1.00	43.95	A	C
ATOM	775	O	ARG A 220	246.563	-57.773	116.314	1.00	44.55	A	O
ATOM	776	N	GLU A 221	245.973	-58.369	114.198	1.00	44.85	A	N
ATOM	777	CA	GLU A 221	244.688	-57.692	114.255	1.00	43.30	A	C
ATOM	778	CB	GLU A 221	244.031	-57.678	112.884	1.00	46.86	A	C
ATOM	779	CG	GLU A 221	242.921	-56.648	112.713	1.00	56.65	A	C
ATOM	780	CD	GLU A 221	243.442	-55.193	112.758	1.00	63.09	A	C
ATOM	781	OE1	GLU A 221	242.629	-54.238	112.637	1.00	66.10	A	O
ATOM	782	OE2	GLU A 221	244.670	-55.005	112.919	1.00	66.07	A	O
ATOM	783	C	GLU A 221	243.806	-58.412	115.243	1.00	46.56	A	C
ATOM	784	O	GLU A 221	242.959	-57.802	115.900	1.00	44.66	A	O
ATOM	785	N	LEU A 222	244.028	-59.719	115.362	1.00	46.74	A	N
ATOM	786	CA	LEU A 222	243.259	-60.550	116.272	1.00	40.98	A	C
ATOM	787	CB	LEU A 222	243.444	-62.013	115.880	1.00	42.79	A	C
ATOM	788	CG	LEU A 222	242.339	-62.985	116.313	1.00	48.20	A	C
ATOM	789	CD1	LEU A 222	240.982	-62.509	115.826	1.00	42.35	A	C
ATOM	790	CD2	LEU A 222	242.649	-64.361	115.761	1.00	47.96	A	C
ATOM	791	C	LEU A 222	243.744	-60.292	117.718	1.00	45.64	A	C
ATOM	792	O	LEU A 222	242.995	-60.390	118.692	1.00	46.35	A	O
ATOM	793	N	GLN A 223	245.008	-59.938	117.875	1.00	47.19	A	N
ATOM	794	CA	GLN A 223	245.539	-59.670	119.203	1.00	48.16	A	C
ATOM	795	CB	GLN A 223	247.056	-59.584	119.112	1.00	49.22	A	C
ATOM	796	CG	GLN A 223	247.819	-60.926	119.032	1.00	56.96	A	C
ATOM	797	CD	GLN A 223	249.300	-60.732	118.879	1.00	66.12	A	C
ATOM	798	OE1	GLN A 223	249.807	-59.935	117.981	1.00	68.93	A	O
ATOM	799	NE2	GLN A 223	250.067	-61.453	119.755	1.00	65.96	A	N
ATOM	800	C	GLN A 223	244.994	-58.332	119.711	1.00	54.79	A	C
ATOM	801	O	GLN A 223	244.710	-58.153	120.899	1.00	63.31	A	O
ATOM	802	N	LYS A 224	244.877	-57.398	118.779	1.00	53.43	A	N
ATOM	803	CA	LYS A 224	244.412	-56.042	119.021	1.00	52.16	A	C
ATOM	804	CB	LYS A 224	244.668	-55.276	117.729	1.00	51.41	A	C
ATOM	805	CG	LYS A 224	244.740	-53.805	117.796	1.00	58.82	A	C
ATOM	806	CD	LYS A 224	245.109	-53.234	116.429	1.00	58.34	A	C
ATOM	807	CE	LYS A 224	244.105	-52.175	115.957	1.00	57.11	A	C
ATOM	808	NZ	LYS A 224	243.509	-52.549	114.632	1.00	62.05	A	N
ATOM	809	C	LYS A 224	242.909	-55.999	119.415	1.00	46.25	A	C
ATOM	810	O	LYS A 224	242.551	-55.374	120.392	1.00	53.53	A	O
ATOM	811	N	LEU A 225	242.054	-56.685	118.658	1.00	40.03	A	N
ATOM	812	CA	LEU A 225	240.616	-56.712	118.865	1.00	28.18	A	C
ATOM	813	CB	LEU A 225	239.918	-56.682	117.544	1.00	32.03	A	C
ATOM	814	CG	LEU A 225	240.538	-55.704	116.515	1.00	37.72	A	C
ATOM	815	CD1	LEU A 225	239.725	-55.736	115.208	1.00	28.64	A	C
ATOM	816	CD2	LEU A 225	240.577	-54.252	117.096	1.00	32.47	A	C
ATOM	817	C	LEU A 225	240.076	-57.907	119.686	1.00	39.70	A	C
ATOM	818	O	LEU A 225	238.896	-57.954	120.056	1.00	27.45	A	O
ATOM	819	N	SER A 226	240.939	-58.877	119.958	1.00	33.23	A	N
ATOM	820	CA	SER A 226	240.528	-60.051	120.695	1.00	38.91	A	C
ATOM	821	CB	SER A 226	239.864	-59.653	122.015	1.00	42.93	A	C
ATOM	822	OG	SER A 226	240.536	-58.570	122.642	1.00	59.01	A	O
ATOM	823	C	SER A 226	239.548	-60.869	119.667	1.00	40.96	A	C
ATOM	824	O	SER A 226	239.777	-62.029	119.592	1.00	45.01	A	O
ATOM	825	N	LYS A 227	238.433	-60.270	119.484	1.00	43.12	A	N
ATOM	826	CA	LYS A 227	237.409	-60.968	118.693	1.00	37.87	A	C
ATOM	827	CB	LYS A 227	236.160	-61.246	119.551	1.00	41.34	A	C
ATOM	828	CG	LYS A 227	236.384	-62.150	120.650	1.00	49.95	A	C
ATOM	829	CD	LYS A 227	235.126	-62.365	121.469	1.00	59.51	A	C
ATOM	830	CE	LYS A 227	234.854	-61.186	122.468	1.00	64.97	A	C
ATOM	831	NZ	LYS A 227	234.813	-61.628	123.907	1.00	64.50	A	N
ATOM	832	C	LYS A 227	237.009	-60.044	117.520	1.00	37.96	A	C

ATOM	833	O	LYS A 227	237.061 -58.799 117.619	1.00 40.95	A	O
ATOM	834	N	PHE A 228	236.575 -60.655 116.431	1.00 34.94	A	N
ATOM	835	CA	PHE A 228	236.175 -59.917 115.262	1.00 34.74	A	C
ATOM	836	CB	PHE A 228	236.793 -60.534 113.998	1.00 34.85	A	C
ATOM	837	CG	PHE A 228	238.248 -60.293 113.849	1.00 43.10	A	C
ATOM	838	CD1	PHE A 228	238.975 -61.009 112.913	1.00 43.37	A	C
ATOM	839	CD2	PHE A 228	238.899 -59.395 114.656	1.00 38.38	A	C
ATOM	840	CE1	PHE A 228	240.341 -60.832 112.796	1.00 48.51	A	C
ATOM	841	CE2	PHE A 228	240.266 -59.207 114.554	1.00 47.20	A	C
ATOM	842	CZ	PHE A 228	240.999 -59.919 113.631	1.00 48.16	A	C
ATOM	843	C	PHE A 228	234.654 -60.063 115.208	1.00 40.38	A	C
ATOM	844	O	PHE A 228	234.102 -61.082 115.664	1.00 36.38	A	O
ATOM	845	N	ASP A 229	233.963 -59.053 114.687	1.00 40.55	A	N
ATOM	846	CA	ASP A 229	232.525 -59.184 114.534	1.00 38.86	A	C
ATOM	847	CB	ASP A 229	231.823 -57.832 114.440	1.00 49.26	A	C
ATOM	848	CG	ASP A 229	232.394 -56.912 113.357	1.00 51.97	A	C
ATOM	849	OD1	ASP A 229	232.396 -57.278 112.179	1.00 54.02	A	O
ATOM	850	OD2	ASP A 229	232.806 -55.788 113.699	1.00 55.60	A	O
ATOM	851	C	ASP A 229	232.180 -60.027 113.304	1.00 41.70	A	C
ATOM	852	O	ASP A 229	233.039 -60.366 112.480	1.00 35.62	A	O
ATOM	853	N	GLU A 230	230.905 -60.365 113.193	1.00 40.43	A	N
ATOM	854	CA	GLU A 230	230.434 -61.213 112.114	1.00 43.61	A	C
ATOM	855	CB	GLU A 230	228.939 -61.526 112.298	1.00 43.33	A	C
ATOM	856	CG	GLU A 230	228.630 -62.147 113.653	1.00 43.90	A	C
ATOM	857	CD	GLU A 230	227.292 -62.967 113.627	1.00 48.51	A	C
ATOM	858	OE1	GLU A 230	226.230 -62.374 113.308	1.00 37.93	A	O
ATOM	859	OE2	GLU A 230	227.300 -64.204 113.916	1.00 42.11	A	O
ATOM	860	C	GLU A 230	230.661 -60.546 110.778	1.00 43.16	A	C
ATOM	861	O	GLU A 230	230.878 -61.205 109.779	1.00 50.29	A	O
ATOM	862	N	GLN A 231	230.590 -59.225 110.748	1.00 49.18	A	N
ATOM	863	CA	GLN A 231	230.742 -58.501 109.489	1.00 49.70	A	C
ATOM	864	CB	GLN A 231	230.311 -57.029 109.685	1.00 57.14	A	C
ATOM	865	CG	GLN A 231	229.958 -56.236 108.412	1.00 62.54	A	C
ATOM	866	CD	GLN A 231	231.200 -55.770 107.642	1.00 71.69	A	C
ATOM	867	OE1	GLN A 231	232.065 -55.042 108.191	1.00 72.68	A	O
ATOM	868	NE2	GLN A 231	231.300 -56.184 106.359	1.00 72.33	A	N
ATOM	869	C	GLN A 231	232.197 -58.614 109.018	1.00 45.76	A	C
ATOM	870	O	GLN A 231	232.470 -58.874 107.846	1.00 46.46	A	O
ATOM	871	N	ARG A 232	233.131 -58.437 109.949	1.00 43.95	A	N
ATOM	872	CA	ARG A 232	234.560 -58.503 109.661	1.00 38.33	A	C
ATOM	873	CB	ARG A 232	235.365 -57.998 110.861	1.00 39.16	A	C
ATOM	874	CG	ARG A 232	236.867 -58.073 110.703	1.00 31.46	A	C
ATOM	875	CD	ARG A 232	237.514 -57.172 111.705	1.00 51.25	A	C
ATOM	876	NE	ARG A 232	238.871 -56.815 111.334	1.00 58.24	A	N
ATOM	877	CZ	ARG A 232	239.275 -55.581 111.111	1.00 65.45	A	C
ATOM	878	NH1	ARG A 232	238.395 -54.594 111.226	1.00 62.94	A	N
ATOM	879	NH2	ARG A 232	240.551 -55.369 110.780	1.00 72.17	A	N
ATOM	880	C	ARG A 232	234.950 -59.946 109.369	1.00 42.02	A	C
ATOM	881	O	ARG A 232	235.757 -60.183 108.517	1.00 45.04	A	O
ATOM	882	N	THR A 233	234.372 -60.909 110.084	1.00 43.50	A	N
ATOM	883	CA	THR A 233	234.697 -62.320 109.891	1.00 37.00	A	C
ATOM	884	CB	THR A 233	234.104 -63.175 110.992	1.00 35.89	A	C
ATOM	885	OG1	THR A 233	234.543 -62.696 112.268	1.00 30.74	A	O
ATOM	886	CG2	THR A 233	234.488 -64.641 110.763	1.00 22.73	A	C
ATOM	887	C	THR A 233	234.149 -62.834 108.555	1.00 45.73	A	C
ATOM	888	O	THR A 233	234.857 -63.523 107.844	1.00 45.99	A	O
ATOM	889	N	ALA A 234	232.892 -62.501 108.228	1.00 44.83	A	N
ATOM	890	CA	ALA A 234	232.256 -62.897 106.960	1.00 41.77	A	C
ATOM	891	CB	ALA A 234	230.852 -62.351 106.893	1.00 39.48	A	C
ATOM	892	C	ALA A 234	233.064 -62.395 105.744	1.00 44.77	A	C
ATOM	893	O	ALA A 234	233.273 -63.131 104.786	1.00 39.69	A	O
ATOM	894	N	THR A 235	233.543 -61.155 105.799	1.00 43.07	A	N
ATOM	895	CA	THR A 235	234.328 -60.579 104.722	1.00 44.31	A	C
ATOM	896	CB	THR A 235	234.557 -59.058 104.926	1.00 44.88	A	C
ATOM	897	OG1	THR A 235	233.306 -58.373 104.984	1.00 49.29	A	O
ATOM	898	CG2	THR A 235	235.343 -58.498 103.807	1.00 37.93	A	C
ATOM	899	C	THR A 235	235.689 -61.252 104.654	1.00 47.59	A	C
ATOM	900	O	THR A 235	236.169 -61.504 103.551	1.00 49.69	A	O
ATOM	901	N	TYR A 236	236.310 -61.521 105.813	1.00 47.35	A	O
ATOM	902	CA	TYR A 236	237.613 -62.189 105.850	1.00 46.90	A	N

ATOM	903	CB	TYR A	236	238.206	-62.221	107.255	1.00	42.67	A	C
ATOM	904	CG	TYR A	236	239.024	-61.003	107.621	1.00	45.24	A	C
ATOM	905	CD1	TYR A	236	239.154	-59.930	106.767	1.00	40.32	A	C
ATOM	906	CE1	TYR A	236	239.909	-58.819	107.134	1.00	51.10	A	C
ATOM	907	CD2	TYR A	236	239.667	-60.929	108.847	1.00	46.47	A	C
ATOM	908	CE2	TYR A	236	240.430	-59.808	109.228	1.00	52.60	A	C
ATOM	909	CZ	TYR A	236	240.542	-58.764	108.367	1.00	49.08	A	C
ATOM	910	OH	TYR A	236	241.265	-57.653	108.719	1.00	58.26	A	O
ATOM	911	C	TYR A	236	237.496	-63.604	105.334	1.00	47.98	A	C
ATOM	912	O	TYR A	236	238.469	-64.148	104.832	1.00	58.71	A	O
ATOM	913	N	ILE A	237	236.296	-64.177	105.416	1.00	50.41	A	N
ATOM	914	CA	ILE A	237	236.032	-65.540	104.944	1.00	46.45	A	C
ATOM	915	CB	ILE A	237	234.816	-66.156	105.635	1.00	45.13	A	C
ATOM	916	CG2	ILE A	237	234.357	-67.442	104.903	1.00	42.23	A	C
ATOM	917	CG1	ILE A	237	235.157	-66.440	107.101	1.00	42.93	A	C
ATOM	918	CD1	ILE A	237	236.253	-67.436	107.317	1.00	39.73	A	C
ATOM	919	C	ILE A	237	235.798	-65.597	103.462	1.00	51.53	A	C
ATOM	920	O	ILE A	237	236.213	-66.548	102.822	1.00	55.68	A	O
ATOM	921	N	THR A	238	235.148	-64.571	102.914	1.00	51.45	A	N
ATOM	922	CA	THR A	238	234.858	-64.526	101.471	1.00	44.65	A	C
ATOM	923	CB	THR A	238	233.929	-63.346	101.106	1.00	44.82	A	C
ATOM	924	OG1	THR A	238	232.653	-63.512	101.719	1.00	43.65	A	O
ATOM	925	CG2	THR A	238	233.701	-63.294	99.660	1.00	44.50	A	C
ATOM	926	C	THR A	238	236.166	-64.350	100.706	1.00	47.18	A	C
ATOM	927	O	THR A	238	236.467	-65.090	99.782	1.00	48.37	A	O
ATOM	928	N	GLU A	239	236.956	-63.367	101.116	1.00	49.98	A	N
ATOM	929	CA	GLU A	239	238.239	-63.082	100.473	1.00	52.23	A	C
ATOM	930	CB	GLU A	239	238.937	-61.932	101.203	1.00	54.22	A	C
ATOM	931	CG	GLU A	239	238.139	-60.624	101.260	1.00	55.95	A	C
ATOM	932	CD	GLU A	239	238.811	-59.573	102.137	1.00	58.38	A	C
ATOM	933	OE1	GLU A	239	239.056	-59.843	103.333	1.00	65.65	A	O
ATOM	934	OE2	GLU A	239	239.099	-58.468	101.634	1.00	60.73	A	O
ATOM	935	C	GLU A	239	239.109	-64.330	100.496	1.00	50.02	A	C
ATOM	936	O	GLU A	239	239.851	-64.616	99.561	1.00	55.72	A	O
ATOM	937	N	LEU A	240	238.978	-65.104	101.557	1.00	49.14	A	N
ATOM	938	CA	LEU A	240	239.768	-66.305	101.702	1.00	48.27	A	C
ATOM	939	CB	LEU A	240	239.776	-66.717	103.173	1.00	46.82	A	C
ATOM	940	CG	LEU A	240	240.917	-67.581	103.679	1.00	45.79	A	C
ATOM	941	CD1	LEU A	240	242.225	-67.030	103.195	1.00	50.28	A	C
ATOM	942	CD2	LEU A	240	240.885	-67.603	105.172	1.00	53.83	A	C
ATOM	943	C	LEU A	240	239.209	-67.420	100.833	1.00	49.65	A	C
ATOM	944	O	LEU A	240	239.960	-68.170	100.210	1.00	53.66	A	C
ATOM	945	N	ALA A	241	237.883	-67.519	100.778	1.00	45.02	A	N
ATOM	946	CA	ALA A	241	237.222	-68.549	99.965	1.00	50.04	A	C
ATOM	947	CB	ALA A	241	235.724	-68.611	100.256	1.00	39.53	A	C
ATOM	948	C	ALA A	241	237.447	-68.278	98.481	1.00	47.71	A	C
ATOM	949	O	ALA A	241	237.495	-69.203	97.682	1.00	54.94	A	O
ATOM	950	N	ASN A	242	237.585	-67.012	98.114	1.00	49.50	A	N
ATOM	951	CA	ASN A	242	237.839	-66.637	96.729	1.00	51.78	A	C
ATOM	952	CB	ASN A	242	237.688	-65.134	96.554	1.00	45.48	A	C
ATOM	953	CG	ASN A	242	236.231	-64.680	96.592	1.00	51.39	A	C
ATOM	954	OD1	ASN A	242	235.972	-63.489	96.769	1.00	50.23	A	O
ATOM	955	ND2	ASN A	242	235.276	-65.620	96.412	1.00	43.58	A	N
ATOM	956	C	ASN A	242	239.241	-67.046	96.330	1.00	50.85	A	C
ATOM	957	O	ASN A	242	239.419	-67.736	95.323	1.00	53.87	A	O
ATOM	958	N	ALA A	243	240.230	-66.625	97.119	1.00	48.27	A	N
ATOM	959	CA	ALA A	243	241.629	-66.970	96.861	1.00	42.21	A	C
ATOM	960	CB	ALA A	243	242.534	-66.345	97.913	1.00	45.13	A	C
ATOM	961	C	ALA A	243	241.816	-68.473	96.880	1.00	43.95	A	C
ATOM	962	O	ALA A	243	242.498	-69.016	96.026	1.00	42.43	A	O
ATOM	963	N	LEU A	244	241.219	-69.152	97.258	1.00	40.59	A	N
ATOM	964	CA	LEU A	244	241.366	-70.606	97.945	1.00	48.68	A	C
ATOM	965	CB	LEU A	244	240.689	-71.141	99.204	1.00	42.37	A	C
ATOM	966	CG	LEU A	244	241.465	-70.944	100.495	1.00	39.60	A	C
ATOM	967	CD1	LEU A	244	240.751	-71.763	101.602	1.00	37.99	A	C
ATOM	968	CD2	LEU A	244	242.889	-71.432	100.340	1.00	35.22	A	C
ATOM	969	C	LEU A	244	240.779	-71.311	96.702	1.00	56.87	A	C
ATOM	970	O	LEU A	244	241.327	-72.330	96.220	1.00	60.52	A	O
ATOM	971	N	SER A	245	239.662	-70.777	96.200	1.00	61.51	A	N
ATOM	972	CA	SER A	245	239.010	-71.317	95.018	1.00	61.35	A	C

ATOM	973	CB	SER A 245	237.785	-70.501	94.692	1.00	64.64	A	C
ATOM	974	OG	SER A 245	237.339	-70.779	93.390	1.00	71.14	A	O
ATOM	975	C	SER A 245	239.981	-71.242	93.855	1.00	63.54	A	C
ATOM	976	O	SER A 245	240.179	-72.233	93.134	1.00	63.37	A	O
ATOM	977	N	TYR A 246	240.581	-70.063	93.679	1.00	58.29	A	N
ATOM	978	CA	TYR A 246	241.571	-69.855	92.633	1.00	57.08	A	C
ATOM	979	CB	TYR A 246	242.123	-68.455	92.719	1.00	51.38	A	C
ATOM	980	CG	TYR A 246	243.247	-68.195	91.754	1.00	55.36	A	C
ATOM	981	CD1	TYR A 246	242.994	-67.652	90.492	1.00	50.94	A	C
ATOM	982	CE1	TYR A 246	244.042	-67.382	89.609	1.00	55.86	A	C
ATOM	983	CD2	TYR A 246	244.584	-68.473	92.111	1.00	54.39	A	C
ATOM	984	CE2	TYR A 246	245.650	-68.213	91.234	1.00	55.81	A	C
ATOM	985	CZ	TYR A 246	245.372	-67.665	89.982	1.00	55.07	A	C
ATOM	986	OH	TYR A 246	246.409	-67.409	89.112	1.00	55.05	A	O
ATOM	987	C	TYR A 246	242.732	-70.852	92.733	1.00	57.54	A	C
ATOM	988	O	TYR A 246	243.234	-71.322	91.718	1.00	64.40	A	O
ATOM	989	N	CYS A 247	243.150	-71.180	93.951	1.00	56.76	A	N
ATOM	990	CA	CYS A 247	244.245	-72.120	94.148	1.00	57.81	A	C
ATOM	991	CB	CYS A 247	244.779	-72.066	95.599	1.00	52.55	A	C
ATOM	992	SG	CYS A 247	245.687	-70.569	96.004	1.00	57.32	A	S
ATOM	993	C	CYS A 247	243.813	-73.538	93.837	1.00	59.03	A	C
ATOM	994	O	CYS A 247	244.535	-74.272	93.143	1.00	61.55	A	O
ATOM	995	N	HIS A 248	242.659	-73.930	94.374	1.00	60.08	A	N
ATOM	996	CA	HIS A 248	242.151	-75.291	94.156	1.00	58.63	A	C
ATOM	997	CB	HIS A 248	240.916	-75.540	95.036	1.00	57.40	A	C
ATOM	998	CG	HIS A 248	241.217	-75.606	96.496	1.00	54.60	A	C
ATOM	999	CD2	HIS A 248	242.393	-75.694	97.160	1.00	54.55	A	C
ATOM	1000	ND1	HIS A 248	240.231	-75.623	97.459	1.00	54.23	A	N
ATOM	1001	CE1	HIS A 248	240.789	-75.721	98.654	1.00	51.97	A	C
ATOM	1002	NE2	HIS A 248	242.099	-75.765	98.501	1.00	50.58	A	N
ATOM	1003	C	HIS A 248	241.806	-75.535	92.668	1.00	58.67	A	C
ATOM	1004	O	HIS A 248	241.857	-76.667	92.171	1.00	50.45	A	O
ATOM	1005	N	SER A 249	241.459	-74.464	91.959	1.00	53.97	A	N
ATOM	1006	CA	SER A 249	241.133	-74.589	90.550	1.00	58.32	A	C
ATOM	1007	CB	SER A 249	240.647	-73.248	89.991	1.00	55.40	A	C
ATOM	1008	OG	SER A 249	241.757	-72.480	89.526	1.00	54.94	A	O
ATOM	1009	C	SER A 249	242.407	-75.020	89.798	1.00	58.15	A	C
ATOM	1010	O	SER A 249	242.326	-75.573	88.707	1.00	70.94	A	O
ATOM	1011	N	LYS A 250	243.574	-74.746	90.370	1.00	51.49	A	N
ATOM	1012	CA	LYS A 250	244.820	-75.119	89.753	1.00	46.67	A	C
ATOM	1013	CB	LYS A 250	245.818	-73.947	89.805	1.00	31.37	A	C
ATOM	1014	C	LYS A 250	245.364	-76.343	90.494	1.00	50.71	A	C
ATOM	1015	O	LYS A 250	246.506	-76.755	90.233	1.00	60.01	A	O
ATOM	1016	N	ARG A 251	244.553	-76.931	91.389	1.00	52.78	A	N
ATOM	1017	CA	ARG A 251	244.965	-78.113	92.167	1.00	55.47	A	C
ATOM	1018	CB	ARG A 251	245.383	-79.258	91.244	1.00	58.86	A	C
ATOM	1019	CG	ARG A 251	244.211	-79.957	90.536	1.00	62.01	A	C
ATOM	1020	CD	ARG A 251	244.126	-81.392	90.989	1.00	65.71	A	C
ATOM	1021	NE	ARG A 251	242.807	-81.741	91.512	1.00	68.34	A	N
ATOM	1022	CZ	ARG A 251	242.484	-82.945	92.002	1.00	72.31	A	C
ATOM	1023	NH1	ARG A 251	243.384	-83.929	92.045	1.00	72.96	A	N
ATOM	1024	NH2	ARG A 251	241.252	-83.178	92.445	1.00	71.74	A	N
ATOM	1025	C	ARG A 251	246.099	-77.840	93.137	1.00	53.93	A	C
ATOM	1026	O	ARG A 251	247.007	-78.666	93.285	1.00	57.77	A	O
ATOM	1027	N	VAL A 252	246.043	-76.686	93.799	1.00	56.22	A	N
ATOM	1028	CA	VAL A 252	247.072	-76.314	94.774	1.00	53.20	A	C
ATOM	1029	CB	VAL A 252	247.721	-74.966	94.401	1.00	50.06	A	C
ATOM	1030	CG1	VAL A 252	248.682	-74.549	95.463	1.00	49.54	A	C
ATOM	1031	CG2	VAL A 252	248.418	-75.083	93.080	1.00	48.46	A	C
ATOM	1032	C	VAL A 252	246.492	-76.207	96.196	1.00	54.67	A	C
ATOM	1033	O	VAL A 252	245.536	-75.465	96.426	1.00	56.55	A	O
ATOM	1034	N	ILE A 253	247.074	-76.956	97.130	1.00	52.34	A	O
ATOM	1035	CA	ILE A 253	246.641	-76.948	98.498	1.00	42.71	A	N
ATOM	1036	CB	ILE A 253	246.696	-78.341	99.103	1.00	38.24	A	C
ATOM	1037	CG2	ILE A 253	245.676	-78.449	100.219	1.00	44.12	A	C
ATOM	1038	CG1	ILE A 253	246.279	-79.380	98.083	1.00	35.92	A	C
ATOM	1039	CD1	ILE A 253	246.298	-80.813	98.644	1.00	42.55	A	C
ATOM	1040	C	ILE A 253	247.600	-76.096	99.279	1.00	48.08	A	C
ATOM	1041	O	ILE A 253	248.803	-76.288	99.163	1.00	60.87	A	O
ATOM	1042	N	HIS A 254	247.084	-75.165	100.086	1.00	50.60	A	N

ATOM	1043	CA	HIS A 254	247.955	-74.319	100.906	1.00	45.11	A	C
ATOM	1044	CB	HIS A 254	247.187	-73.086	101.374	1.00	43.92	A	C
ATOM	1045	CG	HIS A 254	248.071	-72.014	101.916	1.00	44.85	A	C
ATOM	1046	CD2	HIS A 254	248.486	-70.854	101.360	1.00	39.20	A	C
ATOM	1047	ND1	HIS A 254	248.670	-72.089	103.158	1.00	39.59	A	N
ATOM	1048	CE1	HIS A 254	249.414	-71.014	103.339	1.00	37.61	A	C
ATOM	1049	NE2	HIS A 254	249.318	-70.250	102.265	1.00	38.54	A	N
ATOM	1050	C	HIS A 254	248.490	-75.117	102.103	1.00	44.15	A	C
ATOM	1051	O	HIS A 254	249.681	-75.123	102.372	1.00	48.22	A	O
ATOM	1052	N	ARG A 255	247.587	-75.802	102.793	1.00	42.94	A	N
ATOM	1053	CA	ARG A 255	247.899	-76.642	103.946	1.00	38.93	A	C
ATOM	1054	CB	ARG A 255	248.829	-77.796	103.512	1.00	44.03	A	C
ATOM	1055	CG	ARG A 255	248.460	-78.369	102.124	1.00	46.01	A	C
ATOM	1056	CD	ARG A 255	249.154	-79.689	101.884	1.00	54.38	A	C
ATOM	1057	NE	ARG A 255	250.581	-79.648	102.175	1.00	53.55	A	N
ATOM	1058	CZ	ARG A 255	251.402	-80.673	102.012	1.00	53.89	A	C
ATOM	1059	NH1	ARG A 255	250.938	-81.808	101.562	1.00	52.04	A	N
ATOM	1060	NH2	ARG A 255	252.679	-80.560	102.313	1.00	55.38	A	N
ATOM	1061	C	ARG A 255	248.477	-75.929	105.145	1.00	37.93	A	C
ATOM	1062	O	ARG A 255	248.891	-76.588	106.101	1.00	37.60	A	O
ATOM	1063	N	ASP A 256	248.541	-74.598	105.096	1.00	40.81	A	N
ATOM	1064	CA	ASP A 256	249.090	-73.852	106.231	1.00	41.86	A	C
ATOM	1065	CB	ASP A 256	250.578	-73.685	106.031	1.00	38.62	A	C
ATOM	1066	CG	ASP A 256	251.299	-73.245	107.284	1.00	42.25	A	C
ATOM	1067	OD1	ASP A 256	250.822	-73.586	108.373	1.00	44.21	A	O
ATOM	1068	OD2	ASP A 256	252.367	-72.594	107.177	1.00	39.16	A	O
ATOM	1069	C	ASP A 256	248.415	-72.491	106.390	1.00	45.37	A	C
ATOM	1070	O	ASP A 256	249.065	-71.464	106.563	1.00	52.63	A	O
ATOM	1071	N	ILE A 257	247.092	-72.503	106.340	1.00	49.04	A	N
ATOM	1072	CA	ILE A 257	246.307	-71.289	106.456	1.00	56.39	A	C
ATOM	1073	CB	ILE A 257	244.939	-71.461	105.776	1.00	52.32	A	C
ATOM	1074	CG2	ILE A 257	244.163	-70.205	105.893	1.00	55.85	A	C
ATOM	1075	CG1	ILE A 257	245.143	-71.785	104.305	1.00	60.94	A	C
ATOM	1076	CD1	ILE A 257	243.873	-72.064	103.557	1.00	73.36	A	C
ATOM	1077	C	ILE A 257	246.097	-70.940	107.922	1.00	54.79	A	C
ATOM	1078	O	ILE A 257	245.502	-71.720	108.659	1.00	61.06	A	O
ATOM	1079	N	LYS A 258	246.594	-69.781	108.345	1.00	50.33	A	N
ATOM	1080	CA	LYS A 258	246.428	-69.356	109.719	1.00	46.70	A	C
ATOM	1081	CB	LYS A 258	247.273	-70.220	110.648	1.00	41.61	A	C
ATOM	1082	CG	LYS A 258	248.687	-70.371	110.232	1.00	49.22	A	C
ATOM	1083	CD	LYS A 258	249.425	-71.326	111.200	1.00	42.38	A	C
ATOM	1084	CE	LYS A 258	250.826	-71.627	110.697	1.00	51.66	A	C
ATOM	1085	NZ	LYS A 258	251.488	-72.718	111.456	1.00	40.89	A	N
ATOM	1086	C	LYS A 258	246.756	-67.876	109.860	1.00	45.25	A	C
ATOM	1087	O	LYS A 258	247.504	-67.337	109.042	1.00	41.75	A	O
ATOM	1088	N	PRO A 259	246.189	-67.209	110.898	1.00	38.54	A	N
ATOM	1089	CD	PRO A 259	245.436	-67.848	111.999	1.00	30.99	A	C
ATOM	1090	CA	PRO A 259	246.389	-65.786	111.172	1.00	33.18	A	C
ATOM	1091	CB	PRO A 259	246.034	-65.680	112.643	1.00	36.45	A	C
ATOM	1092	CG	PRO A 259	244.915	-66.649	112.762	1.00	29.46	A	C
ATOM	1093	C	PRO A 259	247.783	-65.250	110.858	1.00	39.75	A	C
ATOM	1094	O	PRO A 259	247.899	-64.163	110.345	1.00	46.84	A	O
ATOM	1095	N	GLU A 260	248.836	-65.999	111.177	1.00	43.95	A	N
ATOM	1096	CA	GLU A 260	250.227	-65.591	110.916	1.00	44.86	A	C
ATOM	1097	CB	GLU A 260	251.224	-66.603	111.505	1.00	50.78	A	C
ATOM	1098	CG	GLU A 260	251.039	-66.922	112.948	1.00	65.67	A	C
ATOM	1099	CD	GLU A 260	249.918	-67.897	113.213	1.00	69.34	A	C
ATOM	1100	OE1	GLU A 260	248.727	-67.499	113.338	1.00	69.34	A	O
ATOM	1101	OE2	GLU A 260	250.264	-69.089	113.299	1.00	80.21	A	O
ATOM	1102	C	GLU A 260	250.514	-65.476	109.430	1.00	39.11	A	C
ATOM	1103	O	GLU A 260	251.197	-64.554	109.027	1.00	44.76	A	O
ATOM	1104	N	ASN A 261	250.029	-66.425	108.622	1.00	40.15	A	N
ATOM	1105	CA	ASN A 261	250.246	-66.396	107.162	1.00	38.92	A	C
ATOM	1106	CB	ASN A 261	250.401	-67.817	106.608	1.00	36.39	A	C
ATOM	1107	CG	ASN A 261	251.539	-68.579	107.266	1.00	36.54	A	C
ATOM	1108	OD1	ASN A 261	252.609	-68.045	107.462	1.00	41.73	A	O
ATOM	1109	ND2	ASN A 261	251.317	-69.831	107.578	1.00	30.81	A	N
ATOM	1110	C	ASN A 261	249.151	-65.638	106.361	1.00	38.95	A	C
ATOM	1111	O	ASN A 261	249.142	-65.652	105.149	1.00	40.40	A	O
ATOM	1112	N	LEU A 262	248.245	-64.953	107.046	1.00	42.51	A	N

ATOM	1113	CA	LEU	A	262	247.197	-64.169	106.386	1.00	42.29	A	C
ATOM	1114	CB	LEU	A	262	245.800	-64.450	106.967	1.00	36.57	A	C
ATOM	1115	CG	LEU	A	262	245.209	-65.819	106.657	1.00	37.41	A	C
ATOM	1116	CD1	LEU	A	262	243.773	-65.817	107.071	1.00	33.79	A	C
ATOM	1117	CD2	LEU	A	262	245.324	-66.152	105.193	1.00	39.29	A	C
ATOM	1118	C	LEU	A	262	247.548	-62.703	106.582	1.00	41.70	A	C
ATOM	1119	O	LEU	A	262	247.543	-62.205	107.717	1.00	44.29	A	O
ATOM	1120	N	LEU	A	263	247.857	-62.021	105.473	1.00	38.70	A	N
ATOM	1121	CA	LEU	A	263	248.238	-60.610	105.505	1.00	26.99	A	C
ATOM	1122	CB	LEU	A	263	249.475	-60.392	104.679	1.00	36.05	A	C
ATOM	1123	CG	LEU	A	263	250.658	-61.333	104.917	1.00	31.41	A	C
ATOM	1124	CD1	LEU	A	263	251.820	-60.991	103.978	1.00	33.22	A	C
ATOM	1125	CD2	LEU	A	263	251.081	-61.269	106.325	1.00	29.25	A	C
ATOM	1126	C	LEU	A	263	247.144	-59.677	105.013	1.00	35.80	A	C
ATOM	1127	O	LEU	A	263	246.220	-60.100	104.304	1.00	32.87	A	O
ATOM	1128	N	LEU	A	264	247.245	-58.408	105.410	1.00	31.98	A	N
ATOM	1129	CA	LEU	A	264	246.246	-57.428	105.041	1.00	33.35	A	C
ATOM	1130	CB	LEU	A	264	245.703	-56.729	106.303	1.00	31.72	A	C
ATOM	1131	CG	LEU	A	264	244.971	-57.619	107.303	1.00	28.92	A	C
ATOM	1132	CD1	LEU	A	264	244.728	-56.820	108.620	1.00	24.69	A	C
ATOM	1133	CD2	LEU	A	264	243.644	-58.095	106.660	1.00	26.84	A	C
ATOM	1134	C	LEU	A	264	246.884	-56.419	104.110	1.00	35.86	A	C
ATOM	1135	O	LEU	A	264	247.974	-55.944	104.368	1.00	40.12	A	O
ATOM	1136	N	GLY	A	265	246.188	-56.100	103.026	1.00	36.89	A	N
ATOM	1137	CA	GLY	A	265	246.674	-55.133	102.045	1.00	43.31	A	C
ATOM	1138	C	GLY	A	265	246.399	-53.673	102.351	1.00	43.89	A	C
ATOM	1139	O	GLY	A	265	245.889	-53.350	103.401	1.00	48.54	A	O
ATOM	1140	N	SER	A	266	246.742	-52.796	101.422	1.00	48.23	A	N
ATOM	1141	CA	SER	A	266	246.567	-51.364	101.591	1.00	49.09	A	C
ATOM	1142	CB	SER	A	266	246.936	-50.647	100.304	1.00	51.41	A	C
ATOM	1143	OG	SER	A	266	246.057	-51.012	99.237	1.00	64.31	A	O
ATOM	1144	C	SER	A	266	245.138	-51.019	101.970	1.00	51.39	A	C
ATOM	1145	O	SER	A	266	244.915	-50.247	102.883	1.00	54.83	A	O
ATOM	1146	N	ALA	A	267	244.162	-51.588	101.271	1.00	54.20	A	N
ATOM	1147	CA	ALA	A	267	242.749	-51.323	101.577	1.00	47.57	A	C
ATOM	1148	CB	ALA	A	267	241.921	-51.394	100.320	1.00	47.18	A	C
ATOM	1149	C	ALA	A	267	242.203	-52.330	102.595	1.00	48.50	A	C
ATOM	1150	O	ALA	A	267	241.010	-52.582	102.620	1.00	50.25	A	O
ATOM	1151	N	GLY	A	268	243.084	-52.913	103.410	1.00	45.91	A	N
ATOM	1152	CA	GLY	A	268	242.665	-53.860	104.420	1.00	38.28	A	C
ATOM	1153	C	GLY	A	268	242.192	-55.187	103.868	1.00	42.82	A	C
ATOM	1154	O	GLY	A	268	241.652	-56.003	104.639	1.00	43.08	A	O
ATOM	1155	N	GLU	A	269	242.396	-55.431	102.569	1.00	42.29	A	O
ATOM	1156	CA	GLU	A	269	241.958	-56.697	101.992	1.00	40.12	A	N
ATOM	1157	CB	GLU	A	269	241.996	-56.635	100.480	1.00	44.93	A	C
ATOM	1158	CG	GLU	A	269	243.430	-56.655	99.871	1.00	51.34	A	C
ATOM	1159	CD	GLU	A	269	243.997	-55.261	99.657	1.00	57.16	A	C
ATOM	1160	OE1	GLU	A	269	244.081	-54.491	100.642	1.00	51.07	A	O
ATOM	1161	OE2	GLU	A	269	244.350	-54.945	98.493	1.00	61.02	A	O
ATOM	1162	C	GLU	A	269	242.872	-57.847	102.472	1.00	44.10	A	O
ATOM	1163	O	GLU	A	269	244.053	-57.652	102.807	1.00	43.32	A	C
ATOM	1164	N	LEU	A	270	242.331	-59.059	102.481	1.00	43.44	A	N
ATOM	1165	CA	LEU	A	270	243.076	-60.228	102.927	1.00	44.15	A	C
ATOM	1166	CB	LEU	A	270	242.102	-61.333	103.323	1.00	50.71	A	C
ATOM	1167	CG	LEU	A	270	242.624	-62.428	104.232	1.00	53.26	A	C
ATOM	1168	CD1	LEU	A	270	242.304	-62.033	105.661	1.00	60.78	A	C
ATOM	1169	CD2	LEU	A	270	241.999	-63.736	103.906	1.00	50.44	A	C
ATOM	1170	C	LEU	A	270	243.985	-60.731	101.813	1.00	44.35	A	C
ATOM	1171	O	LEU	A	270	243.728	-60.526	100.635	1.00	49.43	A	O
ATOM	1172	N	LYS	A	271	245.063	-61.398	102.188	1.00	40.19	A	N
ATOM	1173	CA	LYS	A	271	245.994	-61.946	101.211	1.00	31.70	A	C
ATOM	1174	CB	LYS	A	271	247.028	-60.897	100.819	1.00	32.47	A	C
ATOM	1175	CG	LYS	A	271	246.604	-59.930	99.753	1.00	31.86	A	C
ATOM	1176	CD	LYS	A	271	247.492	-58.692	99.731	1.00	35.87	A	C
ATOM	1177	CE	LYS	A	271	247.103	-57.715	98.619	1.00	42.09	A	C
ATOM	1178	NZ	LYS	A	271	247.551	-58.225	97.303	1.00	58.37	A	N
ATOM	1179	C	LYS	A	271	246.714	-63.148	101.820	1.00	41.22	A	C
ATOM	1180	O	LYS	A	271	247.433	-63.023	102.807	1.00	49.74	A	C
ATOM	1181	N	ILE	A	272	246.505	-64.322	101.249	1.00	39.27	A	O
ATOM	1182	CA	ILE	A	272	247.155	-65.524	101.741	1.00	34.76	A	N

ATOM	1183	CB	ILE	A	272	246.491	-66.758	101.150	1.00	44.34	A	C
ATOM	1184	CG2	ILE	A	272	246.821	-67.987	102.002	1.00	55.36	A	C
ATOM	1185	CG1	ILE	A	272	244.973	-66.577	101.161	1.00	50.03	A	C
ATOM	1186	CD1	ILE	A	272	244.215	-67.794	100.577	1.00	52.97	A	C
ATOM	1187	C	ILE	A	272	248.617	-65.530	101.319	1.00	41.49	A	C
ATOM	1188	O	ILE	A	272	248.918	-65.272	100.168	1.00	40.02	A	O
ATOM	1189	N	ALA	A	273	249.524	-65.832	102.243	1.00	39.46	A	N
ATOM	1190	CA	ALA	A	273	250.936	-65.861	101.931	1.00	38.71	A	C
ATOM	1191	CB	ALA	A	273	251.588	-64.617	102.514	1.00	40.33	A	C
ATOM	1192	C	ALA	A	273	251.592	-67.137	102.487	1.00	46.92	A	C
ATOM	1193	O	ALA	A	273	250.910	-68.063	102.901	1.00	49.16	A	O
ATOM	1194	N	ASP	A	274	252.923	-67.165	102.493	1.00	51.43	A	N
ATOM	1195	CA	ASP	A	274	253.703	-68.293	102.997	1.00	51.40	A	C
ATOM	1196	CB	ASP	A	274	253.686	-68.323	104.530	1.00	50.98	A	C
ATOM	1197	CG	ASP	A	274	254.601	-69.361	105.083	1.00	42.10	A	C
ATOM	1198	OD1	ASP	A	274	255.660	-69.637	104.516	1.00	54.26	A	O
ATOM	1199	OD2	ASP	A	274	254.299	-69.914	106.121	1.00	52.11	A	O
ATOM	1200	C	ASP	A	274	253.224	-69.618	102.433	1.00	51.38	A	C
ATOM	1201	O	ASP	A	274	252.572	-70.382	103.133	1.00	53.85	A	O
ATOM	1202	N	PHE	A	275	253.540	-69.863	101.159	1.00	53.60	A	N
ATOM	1203	CA	PHE	A	275	253.173	-71.097	100.476	1.00	46.97	A	C
ATOM	1204	CB	PHE	A	275	252.975	-70.871	98.973	1.00	42.90	A	C
ATOM	1205	CG	PHE	A	275	251.733	-70.169	98.636	1.00	45.54	A	C
ATOM	1206	CD1	PHE	A	275	251.527	-68.830	99.048	1.00	45.75	A	C
ATOM	1207	CD2	PHE	A	275	250.737	-70.843	97.917	1.00	41.77	A	C
ATOM	1208	CE1	PHE	A	275	250.305	-68.152	98.737	1.00	48.01	A	C
ATOM	1209	CE2	PHE	A	275	249.503	-70.195	97.591	1.00	46.76	A	C
ATOM	1210	CZ	PHE	A	275	249.279	-68.840	98.000	1.00	48.77	A	C
ATOM	1211	C	PHE	A	275	254.270	-72.149	100.678	1.00	43.41	A	C
ATOM	1212	O	PHE	A	275	254.496	-72.970	99.791	1.00	36.81	A	O
ATOM	1213	N	GLY	A	276	254.938	-72.109	101.843	1.00	42.93	A	N
ATOM	1214	CA	GLY	A	276	255.969	-73.079	102.214	1.00	37.83	A	C
ATOM	1215	C	GLY	A	276	255.471	-74.522	102.210	1.00	35.71	A	C
ATOM	1216	O	GLY	A	276	256.197	-75.412	101.834	1.00	45.98	A	O
ATOM	1217	N	TRP	A	277	254.227	-74.768	102.608	1.00	40.57	A	N
ATOM	1218	CA	TRP	A	277	253.676	-76.118	102.591	1.00	36.62	A	C
ATOM	1219	CB	TRP	A	277	252.882	-76.378	103.859	1.00	42.09	A	C
ATOM	1220	CG	TRP	A	277	253.751	-76.592	105.041	1.00	50.97	A	C
ATOM	1221	CD2	TRP	A	277	254.089	-77.854	105.629	1.00	58.62	A	C
ATOM	1222	CE2	TRP	A	277	254.960	-77.593	106.702	1.00	58.91	A	C
ATOM	1223	CE3	TRP	A	277	253.726	-79.182	105.360	1.00	59.93	A	C
ATOM	1224	CD1	TRP	A	277	254.420	-75.640	105.759	1.00	54.30	A	C
ATOM	1225	NE1	TRP	A	277	255.150	-76.235	106.758	1.00	59.86	A	N
ATOM	1226	CZ2	TRP	A	277	255.482	-78.610	107.501	1.00	61.19	A	C
ATOM	1227	CZ3	TRP	A	277	254.244	-80.188	106.162	1.00	61.29	A	C
ATOM	1228	CH2	TRP	A	277	255.108	-79.892	107.219	1.00	63.73	A	C
ATOM	1229	C	TRP	A	277	252.777	-76.364	101.408	1.00	35.74	A	C
ATOM	1230	O	TRP	A	277	252.212	-77.442	101.298	1.00	35.61	A	O
ATOM	1231	N	SER	A	278	252.636	-75.372	100.528	1.00	44.94	A	N
ATOM	1232	CA	SER	A	278	251.779	-75.474	99.336	1.00	46.77	A	C
ATOM	1233	CB	SER	A	278	251.916	-74.202	98.517	1.00	42.80	A	C
ATOM	1234	OG	SER	A	278	250.880	-74.139	97.565	1.00	54.88	A	O
ATOM	1235	C	SER	A	278	252.200	-76.703	98.464	1.00	50.47	A	O
ATOM	1236	O	SER	A	278	253.367	-77.084	98.378	1.00	54.17	A	C
ATOM	1237	N	VAL	A	279	251.246	-77.347	97.819	1.00	51.50	A	N
ATOM	1238	CA	VAL	A	279	251.566	-78.514	96.992	1.00	57.94	A	C
ATOM	1239	CB	VAL	A	279	251.588	-79.780	97.847	1.00	44.98	A	C
ATOM	1240	CG1	VAL	A	279	250.199	-80.321	97.997	1.00	43.31	A	C
ATOM	1241	CG2	VAL	A	279	252.491	-80.787	97.178	1.00	57.04	A	C
ATOM	1242	C	VAL	A	279	250.626	-78.680	95.765	1.00	59.15	A	C
ATOM	1243	O	VAL	A	279	249.430	-73.387	95.867	1.00	67.05	A	O
ATOM	1244	N	HIS	A	280	251.204	-79.094	94.615	1.00	63.81	A	N
ATOM	1245	CA	HIS	A	280	250.486	-79.252	93.335	1.00	67.43	A	C
ATOM	1246	CB	HIS	A	280	251.439	-79.066	92.122	1.00	66.79	A	C
ATOM	1247	CG	HIS	A	280	250.875	-78.185	91.056	1.00	72.05	A	C
ATOM	1248	CD2	HIS	A	280	250.729	-78.371	89.721	1.00	75.11	A	C
ATOM	1249	ND1	HIS	A	280	250.404	-76.921	91.326	1.00	73.34	A	C
ATOM	1250	CE1	HIS	A	280	249.997	-76.358	90.201	1.00	80.03	A	N
ATOM	1251	NE2	HIS	A	280	250.185	-77.217	89.213	1.00	83.14	A	C
ATOM	1252	C	HIS	A	280	249.968	-80.672	93.390	1.00	70.50	A	N

ATOM	1253	O	HIS A 280	250.581	-81.589	92.745	1.00	82.51	A	O
ATOM	1254	N	ALA A 281	248.772	-80.853	93.985	1.00	68.02	A	N
ATOM	1255	CA	ALA A 281	248.427	-82.260	94.196	1.00	68.33	A	C
ATOM	1256	CB	ALA A 281	249.603	-82.885	94.806	1.00	60.98	A	C
ATOM	1257	C	ALA A 281	247.205	-82.754	95.016	1.00	68.64	A	C
ATOM	1258	O	ALA A 281	246.292	-82.032	95.339	1.00	67.99	A	O
ATOM	1259	N	PRO A 282	247.225	-84.034	95.373	1.00	70.43	A	N
ATOM	1260	CD	PRO A 282	246.861	-84.236	93.943	1.00	64.78	A	C
ATOM	1261	CA	PRO A 282	246.609	-85.171	96.058	1.00	67.06	A	C
ATOM	1262	CB	PRO A 282	246.654	-86.295	95.053	1.00	67.65	A	C
ATOM	1263	CG	PRO A 282	246.201	-85.826	93.934	1.00	63.34	A	C
ATOM	1264	C	PRO A 282	247.893	-85.384	96.902	1.00	69.62	A	C
ATOM	1265	O	PRO A 282	248.995	-85.628	96.346	1.00	80.00	A	O
ATOM	1266	N	SER A 283	247.878	-85.322	98.204	1.00	65.02	A	O
ATOM	1267	CA	SER A 283	249.163	-85.680	98.758	1.00	59.53	A	C
ATOM	1268	CB	SER A 283	250.127	-84.498	98.799	1.00	55.46	A	C
ATOM	1269	OG	SER A 283	250.750	-84.456	100.075	1.00	55.84	A	O
ATOM	1270	C	SER A 283	249.259	-86.394	100.033	1.00	55.99	A	C
ATOM	1271	O	SER A 283	248.283	-86.609	100.713	1.00	69.93	A	O
ATOM	1272	N	SER A 284	250.462	-86.835	100.323	1.00	60.56	A	N
ATOM	1273	CA	SER A 284	250.699	-87.467	101.588	1.00	63.49	A	C
ATOM	1274	CB	SER A 284	251.416	-88.808	101.438	1.00	63.76	A	C
ATOM	1275	OG	SER A 284	252.588	-88.697	100.633	1.00	77.24	A	O
ATOM	1276	C	SER A 284	251.609	-86.432	102.280	1.00	63.54	A	C
ATOM	1277	O	SER A 284	251.934	-85.336	101.744	1.00	57.98	A	O
ATOM	1278	N	ARG A 285	251.999	-86.775	103.492	1.00	64.16	A	N
ATOM	1279	CA	ARG A 285	252.823	-85.889	104.282	1.00	67.66	A	C
ATOM	1280	CB	ARG A 285	252.738	-86.301	105.734	1.00	62.91	A	C
ATOM	1281	C	ARG A 285	254.278	-85.923	103.806	1.00	68.61	A	C
ATOM	1282	O	ARG A 285	254.612	-86.645	102.888	1.00	72.84	A	O
ATOM	1283	N	ARG A 286	255.135	-85.146	104.466	1.00	71.24	A	N
ATOM	1284	CA	ARG A 286	256.561	-85.059	104.163	1.00	75.06	A	C
ATOM	1285	CB	ARG A 286	256.943	-83.563	104.008	1.00	73.44	A	C
ATOM	1286	CG	ARG A 286	255.881	-82.698	103.382	1.00	71.75	A	C
ATOM	1287	CD	ARG A 286	255.139	-83.449	102.361	1.00	72.37	A	C
ATOM	1288	NE	ARG A 286	255.481	-82.999	101.030	1.00	72.92	A	N
ATOM	1289	CZ	ARG A 286	254.690	-83.207	99.989	1.00	77.01	A	C
ATOM	1290	NH1	ARG A 286	253.537	-83.858	100.174	1.00	80.80	A	N
ATOM	1291	NH2	ARG A 286	255.024	-82.753	98.778	1.00	73.00	A	N
ATOM	1292	C	ARG A 286	257.251	-85.649	105.339	1.00	79.18	A	O
ATOM	1293	O	ARG A 286	258.525	-85.258	105.556	1.00	80.60	A	O
ATOM	1294	N	TPO A 287	256.458	-86.471	106.097	1.00	82.59	A	N
ATOM	1295	CA	TPO A 287	256.848	-87.091	107.376	1.00	81.36	A	C
ATOM	1296	CB	TPO A 287	258.340	-87.583	107.506	1.00	85.77	A	C
ATOM	1297	CG2	TPO A 287	258.788	-88.436	108.791	1.00	78.62	A	C
ATOM	1298	OG1	TPO A 287	259.242	-87.965	106.406	1.00	96.25	A	O
ATOM	1299	P	TPO A 287	259.671	-89.537	105.840	1.00	94.10	A	P
ATOM	1300	O1P	TPO A 287	261.195	-89.889	106.372	1.00	105.80	A	O
ATOM	1301	O2P	TPO A 287	259.793	-89.485	104.142	1.00	103.14	A	O
ATOM	1302	O3P	TPO A 287	258.773	-90.552	106.786	1.00	103.19	A	O
ATOM	1303	C	TPO A 287	257.020	-86.093	108.560	1.00	84.40	A	C
ATOM	1304	O	TPO A 287	256.708	-86.453	109.760	1.00	82.15	A	O
ATOM	1305	N	TPO A 288	257.164	-84.776	108.357	1.00	86.52	A	N
ATOM	1306	CA	TPO A 288	257.256	-84.113	109.592	1.00	85.55	A	C
ATOM	1307	CB	TPO A 288	258.562	-83.387	109.678	1.00	87.59	A	C
ATOM	1308	CG2	TPO A 288	259.265	-83.063	111.066	1.00	82.26	A	C
ATOM	1309	OG1	TPO A 288	259.687	-83.759	108.739	1.00	93.55	A	O
ATOM	1310	P	TPO A 288	261.048	-84.822	108.978	1.00	87.77	A	P
ATOM	1311	O1P	TPO A 288	262.388	-83.892	109.216	1.00	91.79	A	O
ATOM	1312	O2P	TPO A 288	261.352	-85.656	107.542	1.00	93.35	A	O
ATOM	1313	O3P	TPO A 288	260.797	-85.456	110.481	1.00	95.16	A	O
ATOM	1314	C	TPO A 288	256.287	-82.985	109.892	1.00	89.28	A	C
ATOM	1315	O	TPO A 288	255.311	-82.594	109.048	1.00	86.14	A	O
ATOM	1316	N	LEU A 289	256.536	-82.411	111.055	1.00	87.01	A	N
ATOM	1317	CA	LEU A 289	255.511	-81.523	111.435	1.00	88.25	A	C
ATOM	1318	CB	LEU A 289	254.346	-82.345	111.883	1.00	78.91	A	C
ATOM	1319	C	LEU A 289	255.852	-80.565	112.436	1.00	87.34	A	C
ATOM	1320	O	LEU A 289	256.026	-80.894	113.634	1.00	90.27	A	O
ATOM	1321	N	CYS A 290	256.101	-79.389	111.914	1.00	89.51	A	N
ATOM	1322	CA	CYS A 290	256.347	-78.354	112.824	1.00	89.73	A	C

ATOM	1323	CB	CYS A 290	257.299	-77.405	112.324	1.00	80.05	A	C
ATOM	1324	C	CYS A 290	254.931	-77.891	112.490	1.00	90.22	A	C
ATOM	1325	O	CYS A 290	254.405	-77.933	111.292	1.00	91.11	A	O
ATOM	1326	N	GLY A 291	254.262	-77.496	113.541	1.00	90.88	A	N
ATOM	1327	CA	GLY A 291	252.946	-77.026	113.294	1.00	84.36	A	C
ATOM	1328	C	GLY A 291	252.214	-77.175	114.559	1.00	80.67	A	C
ATOM	1329	O	GLY A 291	252.395	-78.093	115.381	1.00	72.19	A	O
ATOM	1330	N	THR A 292	251.411	-76.152	114.668	1.00	72.87	A	O
ATOM	1331	CA	THR A 292	250.543	-75.923	115.732	1.00	68.66	A	C
ATOM	1332	CB	THR A 292	250.229	-74.450	115.788	1.00	64.26	A	C
ATOM	1333	OG1	THR A 292	249.385	-74.238	116.907	1.00	62.83	A	O
ATOM	1334	CG2	THR A 292	249.511	-73.967	114.478	1.00	66.76	A	C
ATOM	1335	C	THR A 292	249.401	-76.698	115.093	1.00	69.67	A	C
ATOM	1336	O	THR A 292	248.736	-76.230	114.162	1.00	81.32	A	O
ATOM	1337	N	LEU A 293	249.162	-77.905	115.545	1.00	65.76	A	N
ATOM	1338	CA	LEU A 293	248.076	-78.633	114.929	1.00	57.85	A	C
ATOM	1339	CB	LEU A 293	247.775	-79.863	115.741	1.00	58.26	A	C
ATOM	1340	CG	LEU A 293	249.007	-80.649	116.175	1.00	59.75	A	C
ATOM	1341	CD1	LEU A 293	248.607	-81.606	117.246	1.00	56.85	A	C
ATOM	1342	CD2	LEU A 293	249.618	-81.397	114.982	1.00	55.33	A	C
ATOM	1343	C	LEU A 293	246.812	-77.819	114.737	1.00	54.37	A	C
ATOM	1344	O	LEU A 293	246.215	-77.930	113.686	1.00	59.11	A	O
ATOM	1345	N	ASP A 294	246.467	-76.947	115.687	1.00	45.72	A	N
ATOM	1346	CA	ASP A 294	245.241	-76.166	115.622	1.00	46.04	A	C
ATOM	1347	CB	ASP A 294	245.471	-74.762	116.195	1.00	47.18	A	C
ATOM	1348	CG	ASP A 294	245.754	-74.782	117.713	1.00	53.87	A	C
ATOM	1349	OD1	ASP A 294	244.938	-75.399	118.452	1.00	53.07	A	O
ATOM	1350	OD2	ASP A 294	246.772	-74.166	118.153	1.00	44.18	A	O
ATOM	1351	C	ASP A 294	244.490	-76.064	114.323	1.00	42.63	A	C
ATOM	1352	O	ASP A 294	243.322	-76.434	114.275	1.00	40.46	A	O
ATOM	1353	N	TYR A 295	245.168	-75.589	113.280	1.00	41.51	A	N
ATOM	1354	CA	TYR A 295	244.534	-75.404	111.983	1.00	42.29	A	C
ATOM	1355	CB	TYR A 295	245.046	-74.116	111.335	1.00	42.13	A	C
ATOM	1356	CG	TYR A 295	245.120	-72.945	112.263	1.00	41.89	A	C
ATOM	1357	CD1	TYR A 295	246.211	-72.793	113.099	1.00	47.14	A	C
ATOM	1358	CE1	TYR A 295	246.304	-71.731	113.973	1.00	47.33	A	C
ATOM	1359	CD2	TYR A 295	244.117	-71.995	112.309	1.00	36.13	A	C
ATOM	1360	CE2	TYR A 295	244.212	-70.914	113.162	1.00	43.23	A	C
ATOM	1361	CZ	TYR A 295	245.302	-70.785	113.996	1.00	47.19	A	C
ATOM	1362	OH	TYR A 295	245.414	-69.690	114.838	1.00	57.32	A	C
ATOM	1363	C	TYR A 295	244.655	-76.563	110.985	1.00	41.49	A	O
ATOM	1364	O	TYR A 295	244.224	-76.467	109.822	1.00	43.26	A	O
ATOM	1365	N	LEU A 296	245.228	-77.668	111.448	1.00	39.99	A	N
ATOM	1366	CA	LEU A 296	245.411	-78.868	110.607	1.00	51.39	A	C
ATOM	1367	CB	LEU A 296	246.671	-79.611	111.016	1.00	53.81	A	C
ATOM	1368	CG	LEU A 296	248.033	-78.987	110.652	1.00	57.41	A	C
ATOM	1369	CD1	LEU A 296	249.165	-79.934	111.025	1.00	51.84	A	C
ATOM	1370	CD2	LEU A 296	248.040	-78.694	109.161	1.00	50.59	A	C
ATOM	1371	C	LEU A 296	244.205	-79.803	110.651	1.00	48.90	A	C
ATOM	1372	O	LEU A 296	243.511	-79.890	111.645	1.00	60.00	A	C
ATOM	1373	N	PRO A 297	243.914	-80.480	109.550	1.00	49.64	A	O
ATOM	1374	CD	PRO A 297	244.428	-80.152	108.220	1.00	48.93	A	C
ATOM	1375	CA	PRO A 297	242.782	-81.390	109.447	1.00	53.31	A	C
ATOM	1376	CB	PRO A 297	242.450	-81.327	107.951	1.00	50.04	A	C
ATOM	1377	CG	PRO A 297	243.782	-81.194	107.367	1.00	48.93	A	C
ATOM	1378	C	PRO A 297	243.137	-82.762	109.966	1.00	57.23	A	C
ATOM	1379	O	PRO A 297	244.303	-83.109	110.051	1.00	56.18	A	C
ATOM	1380	N	PRO A 298	242.135	-83.562	110.334	1.00	59.72	A	N
ATOM	1381	CD	PRO A 298	240.704	-83.237	110.308	1.00	64.33	A	C
ATOM	1382	CA	PRO A 298	242.340	-84.917	110.853	1.00	62.61	A	C
ATOM	1383	CB	PRO A 298	240.929	-85.463	110.920	1.00	65.22	A	C
ATOM	1384	CG	PRO A 298	240.143	-84.267	111.288	1.00	64.88	A	C
ATOM	1385	C	PRO A 298	243.245	-85.779	109.963	1.00	64.63	A	C
ATOM	1386	O	PRO A 298	244.184	-86.426	110.459	1.00	56.23	A	O
ATOM	1387	N	GLU A 299	242.975	-85.781	108.656	1.00	60.03	A	N
ATOM	1388	CA	GLU A 299	243.778	-86.574	107.711	1.00	58.56	A	C
ATOM	1389	CB	GLU A 299	243.303	-86.339	106.265	1.00	57.01	A	C
ATOM	1390	CG	GLU A 299	243.028	-84.864	105.914	1.00	52.94	A	C
ATOM	1391	CD	GLU A 299	241.596	-84.474	106.109	1.00	43.80	A	C
ATOM	1392	OE1	GLU A 299	241.003	-84.897	107.126	1.00	47.74	A	O

ATOM	1393	OE2	GLU A 299	241.075	-83.733	105.248	1.00	48.97	A	O
ATOM	1394	C	GLU A 299	245.279	-86.287	107.819	1.00	62.41	A	C
ATOM	1395	O	GLU A 299	246.094	-87.208	108.002	1.00	64.05	A	O
ATOM	1396	N	MET A 300	245.648	-85.014	107.709	1.00	63.79	A	N
ATOM	1397	CA	MET A 300	247.051	-84.637	107.816	1.00	63.71	A	C
ATOM	1398	CB	MET A 300	247.225	-83.145	107.597	1.00	67.63	A	C
ATOM	1399	CG	MET A 300	247.374	-82.763	106.145	1.00	66.70	A	C
ATOM	1400	SD	MET A 300	248.052	-81.127	106.017	1.00	71.20	A	S
ATOM	1401	CE	MET A 300	249.750	-81.388	106.380	1.00	69.10	A	C
ATOM	1402	C	MET A 300	247.661	-85.000	109.174	1.00	66.02	A	C
ATOM	1403	O	MET A 300	248.702	-85.664	109.256	1.00	70.05	A	O
ATOM	1404	N	ILE A 301	247.025	-84.550	110.244	1.00	67.53	A	N
ATOM	1405	CA	ILE A 301	247.504	-84.829	111.596	1.00	68.63	A	C
ATOM	1406	CB	ILE A 301	246.490	-84.278	112.606	1.00	67.77	A	C
ATOM	1407	CG2	ILE A 301	246.782	-84.750	113.995	1.00	61.97	A	C
ATOM	1408	CG1	ILE A 301	246.505	-82.750	112.495	1.00	67.98	A	C
ATOM	1409	CD1	ILE A 301	245.392	-82.041	113.240	1.00	76.63	A	C
ATOM	1410	C	ILE A 301	247.769	-86.319	111.812	1.00	73.57	A	C
ATOM	1411	O	ILE A 301	248.662	-86.676	112.588	1.00	78.37	A	O
ATOM	1412	N	GLU A 302	247.034	-87.184	111.092	1.00	75.18	A	N
ATOM	1413	CA	GLU A 302	247.212	-88.639	111.215	1.00	74.73	A	C
ATOM	1414	CB	GLU A 302	245.845	-89.306	111.428	1.00	70.49	A	C
ATOM	1415	CG	GLU A 302	245.378	-89.254	112.936	1.00	78.38	A	C
ATOM	1416	CD	GLU A 302	243.861	-89.396	113.127	1.00	79.55	A	C
ATOM	1417	OE1	GLU A 302	243.188	-90.062	112.281	1.00	80.35	A	O
ATOM	1418	OE2	GLU A 302	243.360	-88.836	114.140	1.00	87.62	A	O
ATOM	1419	C	GLU A 302	248.026	-89.290	110.065	1.00	75.98	A	C
ATOM	1420	O	GLU A 302	248.411	-90.458	110.160	1.00	81.76	A	O
ATOM	1421	N	GLY A 303	248.339	-88.531	109.006	1.00	78.40	A	N
ATOM	1422	CA	GLY A 303	249.160	-89.053	107.912	1.00	72.91	A	C
ATOM	1423	C	GLY A 303	248.566	-89.374	106.552	1.00	72.79	A	C
ATOM	1424	O	GLY A 303	249.237	-89.368	105.513	1.00	76.85	A	O
ATOM	1425	N	ARG A 304	247.286	-89.679	106.549	1.00	67.34	A	N
ATOM	1426	CA	ARG A 304	246.623	-90.043	105.300	1.00	63.57	A	C
ATOM	1427	CB	ARG A 304	245.098	-90.120	105.461	1.00	62.11	A	C
ATOM	1428	CG	ARG A 304	244.623	-91.200	106.414	1.00	63.49	A	C
ATOM	1429	CD	ARG A 304	243.198	-90.950	106.857	1.00	70.18	A	C
ATOM	1430	NE	ARG A 304	243.087	-89.787	107.759	1.00	79.24	A	C
ATOM	1431	CZ	ARG A 304	242.896	-89.857	109.080	1.00	78.33	A	C
ATOM	1432	NH1	ARG A 304	242.788	-91.031	109.665	1.00	78.68	A	N
ATOM	1433	NH2	ARG A 304	242.819	-88.757	109.821	1.00	83.87	A	N
ATOM	1434	C	ARG A 304	246.882	-89.200	104.087	1.00	60.49	A	C
ATOM	1435	O	ARG A 304	247.550	-88.195	104.122	1.00	65.51	A	O
ATOM	1436	N	MET A 305	246.278	-89.661	103.013	1.00	61.50	A	N
ATOM	1437	CA	MET A 305	246.335	-89.084	101.698	1.00	65.46	A	C
ATOM	1438	CB	MET A 305	246.041	-90.197	100.663	1.00	63.39	A	C
ATOM	1439	C	MET A 305	245.233	-88.042	101.699	1.00	69.37	A	C
ATOM	1440	O	MET A 305	244.036	-88.349	101.691	1.00	78.96	A	O
ATOM	1441	N	HIS A 306	245.671	-86.802	101.710	1.00	69.56	A	N
ATOM	1442	CA	HIS A 306	244.790	-85.674	101.706	1.00	64.25	A	C
ATOM	1443	CB	HIS A 306	245.247	-84.657	102.735	1.00	64.47	A	C
ATOM	1444	CG	HIS A 306	246.674	-84.276	102.611	1.00	58.72	A	C
ATOM	1445	CD2	HIS A 306	247.253	-83.167	102.099	1.00	56.35	A	C
ATOM	1446	ND1	HIS A 306	247.691	-85.072	103.092	1.00	58.38	A	N
ATOM	1447	CE1	HIS A 306	248.841	-84.461	102.883	1.00	55.77	A	C
ATOM	1448	NE2	HIS A 306	248.602	-83.307	102.284	1.00	54.24	A	N
ATOM	1449	C	HIS A 306	244.657	-85.001	100.363	1.00	64.13	A	C
ATOM	1450	O	HIS A 306	245.469	-85.186	99.467	1.00	61.51	A	O
ATOM	1451	N	ASP A 307	243.667	-84.122	100.305	1.00	66.29	A	N
ATOM	1452	CA	ASP A 307	243.316	-83.353	99.117	1.00	67.53	A	C
ATOM	1453	CB	ASP A 307	241.988	-83.886	98.618	1.00	76.36	A	C
ATOM	1454	CG	ASP A 307	241.022	-84.130	99.789	1.00	82.91	A	C
ATOM	1455	OD1	ASP A 307	240.938	-83.232	100.665	1.00	87.78	A	O
ATOM	1456	OD2	ASP A 307	240.376	-85.208	99.863	1.00	84.54	A	O
ATOM	1457	C	ASP A 307	243.130	-81.873	99.495	1.00	62.06	A	C
ATOM	1458	O	ASP A 307	243.430	-81.435	100.603	1.00	62.07	A	C
ATOM	1459	N	GLU A 308	242.537	-81.150	98.566	1.00	56.29	A	O
ATOM	1460	CA	GLU A 308	242.256	-79.740	98.709	1.00	59.89	A	N
ATOM	1461	CB	GLU A 308	241.830	-79.236	97.325	1.00	58.22	A	C
ATOM	1462	CG	GLU A 308	241.947	-80.428	96.353	1.00	63.76	A	C

ATOM	1463	CD	GLU	A	308	241.729	-80.087	94.898	1.00	66.66	A	C
ATOM	1464	OE1	GLU	A	308	242.570	-79.367	94.305	1.00	69.11	A	O
ATOM	1465	OE2	GLU	A	308	240.722	-80.565	94.330	1.00	69.49	A	O
ATOM	1466	C	GLU	A	308	241.201	-79.444	99.802	1.00	56.96	A	C
ATOM	1467	O	GLU	A	308	241.003	-78.286	100.226	1.00	57.79	A	O
ATOM	1468	N	LYS	A	309	240.558	-80.495	100.296	1.00	54.61	A	N
ATOM	1469	CA	LYS	A	309	239.526	-80.332	101.317	1.00	54.70	A	C
ATOM	1470	CB	LYS	A	309	238.697	-81.615	101.449	1.00	46.40	A	C
ATOM	1471	CG	LYS	A	309	237.740	-81.859	100.300	1.00	53.44	A	C
ATOM	1472	CD	LYS	A	309	236.674	-80.778	100.253	1.00	58.61	A	C
ATOM	1473	CE	LYS	A	309	235.600	-81.071	99.214	1.00	60.43	A	C
ATOM	1474	NZ	LYS	A	309	234.524	-80.026	99.209	1.00	60.76	A	N
ATOM	1475	C	LYS	A	309	240.111	-79.967	102.668	1.00	54.64	A	C
ATOM	1476	O	LYS	A	309	239.366	-79.724	103.618	1.00	66.35	A	O
ATOM	1477	N	VAL	A	310	241.439	-79.941	102.770	1.00	57.91	A	N
ATOM	1478	CA	VAL	A	310	242.086	-79.593	104.039	1.00	53.66	A	C
ATOM	1479	CB	VAL	A	310	243.573	-79.974	104.058	1.00	52.18	A	C
ATOM	1480	CG1	VAL	A	310	243.749	-81.375	103.528	1.00	54.98	A	C
ATOM	1481	CG2	VAL	A	310	244.347	-79.010	103.252	1.00	55.72	A	C
ATOM	1482	C	VAL	A	310	241.957	-78.091	104.263	1.00	53.64	A	C
ATOM	1483	O	VAL	A	310	241.771	-77.638	105.404	1.00	47.54	A	O
ATOM	1484	N	ASP	A	311	242.008	-77.332	103.168	1.00	50.01	A	N
ATOM	1485	CA	ASP	A	311	241.881	-75.889	103.255	1.00	57.45	A	C
ATOM	1486	CB	ASP	A	311	242.275	-75.232	101.925	1.00	56.10	A	C
ATOM	1487	CG	ASP	A	311	243.756	-75.367	101.624	1.00	55.84	A	C
ATOM	1488	OD1	ASP	A	311	244.585	-75.238	102.553	1.00	49.03	A	O
ATOM	1489	OD2	ASP	A	311	244.085	-75.597	100.453	1.00	54.46	A	O
ATOM	1490	C	ASP	A	311	240.454	-75.467	103.667	1.00	59.07	A	C
ATOM	1491	O	ASP	A	311	240.258	-74.365	104.208	1.00	69.75	A	O
ATOM	1492	N	LEU	A	312	239.471	-76.343	103.445	1.00	56.37	A	N
ATOM	1493	CA	LEU	A	312	238.117	-76.031	103.815	1.00	45.08	A	C
ATOM	1494	CB	LEU	A	312	237.135	-76.975	103.126	1.00	46.93	A	C
ATOM	1495	CG	LEU	A	312	236.719	-76.481	101.746	1.00	45.65	A	C
ATOM	1496	CD1	LEU	A	312	236.262	-77.698	100.966	1.00	57.08	A	C
ATOM	1497	CD2	LEU	A	312	235.607	-75.431	101.878	1.00	42.14	A	C
ATOM	1498	C	LEU	A	312	238.066	-76.204	105.309	1.00	42.72	A	C
ATOM	1499	O	LEU	A	312	237.357	-75.451	105.986	1.00	41.50	A	O
ATOM	1500	N	TRP	A	313	238.778	-77.211	105.814	1.00	35.13	A	N
ATOM	1501	CA	TRP	A	313	238.818	-77.454	107.257	1.00	42.05	A	C
ATOM	1502	CB	TRP	A	313	239.630	-78.718	107.532	1.00	37.59	A	C
ATOM	1503	CG	TRP	A	313	239.903	-78.960	108.973	1.00	37.21	A	C
ATOM	1504	CD2	TRP	A	313	239.169	-79.815	109.859	1.00	38.09	A	C
ATOM	1505	CE2	TRP	A	313	239.786	-79.742	111.133	1.00	40.55	A	C
ATOM	1506	CE3	TRP	A	313	238.050	-80.627	109.706	1.00	42.38	A	C
ATOM	1507	CD1	TRP	A	313	240.895	-78.418	109.716	1.00	40.67	A	C
ATOM	1508	NE1	TRP	A	313	240.843	-78.885	111.022	1.00	36.83	A	N
ATOM	1509	CZ2	TRP	A	313	239.325	-80.470	112.237	1.00	41.12	A	C
ATOM	1510	CZ3	TRP	A	313	237.591	-81.353	110.817	1.00	40.98	A	C
ATOM	1511	CH2	TRP	A	313	238.220	-81.265	112.052	1.00	42.79	A	C
ATOM	1512	C	TRP	A	313	239.448	-76.259	108.009	1.00	45.03	A	C
ATOM	1513	O	TRP	A	313	238.971	-75.813	109.044	1.00	49.94	A	O
ATOM	1514	N	SER	A	314	240.543	-75.748	107.477	1.00	46.02	A	N
ATOM	1515	CA	SER	A	314	241.220	-74.624	108.087	1.00	41.93	A	C
ATOM	1516	CB	SER	A	314	242.523	-74.354	107.341	1.00	44.32	A	C
ATOM	1517	OG	SER	A	314	243.333	-75.505	107.387	1.00	38.93	A	O
ATOM	1518	C	SER	A	314	240.338	-73.392	108.062	1.00	39.99	A	C
ATOM	1519	O	SER	A	314	240.328	-72.596	109.011	1.00	45.37	A	O
ATOM	1520	N	LEU	A	315	239.616	-73.226	106.965	1.00	35.87	A	N
ATOM	1521	CA	LEU	A	315	238.704	-72.091	106.805	1.00	35.10	A	C
ATOM	1522	CB	LEU	A	315	238.115	-72.091	105.390	1.00	34.40	A	C
ATOM	1523	CG	LEU	A	315	237.307	-70.872	104.991	1.00	41.64	A	C
ATOM	1524	CD1	LEU	A	315	238.136	-69.564	105.204	1.00	42.79	A	C
ATOM	1525	CD2	LEU	A	315	236.927	-71.022	103.523	1.00	40.03	A	C
ATOM	1526	C	LEU	A	315	237.569	-72.154	107.851	1.00	38.86	A	C
ATOM	1527	O	LEU	A	315	236.854	-71.200	108.035	1.00	42.90	A	O
ATOM	1528	N	GLY	A	316	237.421	-73.301	108.515	1.00	40.90	A	N
ATOM	1529	CA	GLY	A	316	236.420	-73.475	109.540	1.00	29.38	A	C
ATOM	1530	C	GLY	A	316	237.051	-73.072	110.863	1.00	38.31	A	C
ATOM	1531	O	GLY	A	316	236.444	-72.317	111.644	1.00	44.99	A	O
ATOM	1532	N	VAL	A	317	238.259	-73.578	111.126	1.00	34.77	A	N

ATOM	1533	CA	VAL A	317	238.980	-73.253	112.343	1.00	38.52	A	C
ATOM	1534	CB	VAL A	317	240.378	-73.903	112.348	1.00	39.35	A	C
ATOM	1535	CG1	VAL A	317	241.200	-73.322	113.465	1.00	39.07	A	C
ATOM	1536	CG2	VAL A	317	240.268	-75.403	112.500	1.00	36.59	A	C
ATOM	1537	C	VAL A	317	239.145	-71.743	112.382	1.00	39.43	A	C
ATOM	1538	O	VAL A	317	238.923	-71.092	113.421	1.00	39.97	A	O
ATOM	1539	N	LEU A	318	239.517	-71.195	111.226	1.00	35.94	A	N
ATOM	1540	CA	LEU A	318	239.728	-69.769	111.107	1.00	35.49	A	C
ATOM	1541	CB	LEU A	318	240.217	-69.443	109.701	1.00	34.72	A	C
ATOM	1542	CG	LEU A	318	241.505	-68.678	109.594	1.00	35.85	A	C
ATOM	1543	CD1	LEU A	318	242.492	-69.129	110.631	1.00	35.87	A	C
ATOM	1544	CD2	LEU A	318	242.040	-68.906	108.254	1.00	39.24	A	C
ATOM	1545	C	LEU A	318	238.440	-68.952	111.425	1.00	41.79	A	C
ATOM	1546	O	LEU A	318	238.499	-67.943	112.191	1.00	36.26	A	O
ATOM	1547	N	CYS A	319	237.301	-69.398	110.858	1.00	35.62	A	N
ATOM	1548	CA	CYS A	319	236.053	-68.700	111.024	1.00	40.61	A	C
ATOM	1549	CB	CYS A	319	235.013	-69.338	110.158	1.00	35.35	A	C
ATOM	1550	SG	CYS A	319	233.324	-68.489	110.215	1.00	25.40	A	S
ATOM	1551	C	CYS A	319	235.640	-68.734	112.482	1.00	35.51	A	C
ATOM	1552	O	CYS A	319	235.027	-67.810	112.980	1.00	40.27	A	O
ATOM	1553	N	TYR A	320	236.009	-69.795	113.182	1.00	38.46	A	N
ATOM	1554	CA	TYR A	320	235.683	-69.942	114.604	1.00	39.25	A	C
ATOM	1555	CB	TYR A	320	235.867	-71.406	115.016	1.00	37.24	A	C
ATOM	1556	CG	TYR A	320	235.634	-71.683	116.479	1.00	38.04	A	C
ATOM	1557	CD1	TYR A	320	236.573	-71.333	117.438	1.00	34.91	A	C
ATOM	1558	CE1	TYR A	320	236.380	-71.640	118.800	1.00	31.79	A	C
ATOM	1559	CD2	TYR A	320	234.484	-72.331	116.892	1.00	39.29	A	C
ATOM	1560	CE2	TYR A	320	234.248	-72.628	118.233	1.00	35.49	A	C
ATOM	1561	CZ	TYR A	320	235.191	-72.289	119.198	1.00	41.97	A	C
ATOM	1562	OH	TYR A	320	234.905	-72.575	120.532	1.00	35.00	A	O
ATOM	1563	C	TYR A	320	236.613	-69.038	115.435	1.00	43.31	A	C
ATOM	1564	O	TYR A	320	236.166	-68.318	116.322	1.00	51.83	A	O
ATOM	1565	N	GLU A	321	237.910	-69.073	115.144	1.00	42.04	A	N
ATOM	1566	CA	GLU A	321	238.860	-68.249	115.871	1.00	43.24	A	C
ATOM	1567	CB	GLU A	321	240.273	-68.552	115.419	1.00	36.62	A	C
ATOM	1568	CG	GLU A	321	241.311	-67.733	116.144	1.00	43.20	A	C
ATOM	1569	CD	GLU A	321	242.689	-68.087	115.740	1.00	47.61	A	C
ATOM	1570	OE1	GLU A	321	242.845	-69.101	115.003	1.00	49.19	A	O
ATOM	1571	OE2	GLU A	321	243.606	-67.350	116.171	1.00	55.54	A	O
ATOM	1572	C	GLU A	321	238.569	-66.763	115.714	1.00	42.47	A	C
ATOM	1573	O	GLU A	321	238.794	-65.970	116.656	1.00	48.77	A	O
ATOM	1574	N	PHE A	322	238.073	-66.377	114.539	1.00	40.79	A	N
ATOM	1575	CA	PHE A	322	237.728	-64.970	114.299	1.00	37.96	A	C
ATOM	1576	CB	PHE A	322	237.361	-64.737	112.846	1.00	37.47	A	C
ATOM	1577	CG	PHE A	322	238.517	-64.880	111.892	1.00	39.59	A	C
ATOM	1578	CD1	PHE A	322	239.839	-64.729	112.338	1.00	34.97	A	C
ATOM	1579	CD2	PHE A	322	238.279	-65.133	110.515	1.00	41.97	A	C
ATOM	1580	CE1	PHE A	322	240.892	-64.830	111.441	1.00	36.15	A	C
ATOM	1581	CE2	PHE A	322	239.342	-65.232	109.605	1.00	35.10	A	C
ATOM	1582	CZ	PHE A	322	240.649	-65.081	110.070	1.00	38.47	A	C
ATOM	1583	C	PHE A	322	236.569	-64.466	115.166	1.00	40.06	A	C
ATOM	1584	O	PHE A	322	236.542	-63.305	115.532	1.00	37.07	A	O
ATOM	1585	N	LEU A	323	235.636	-65.356	115.499	1.00	34.80	A	N
ATOM	1586	CA	LEU A	323	234.484	-65.021	116.291	1.00	30.32	A	C
ATOM	1587	CB	LEU A	323	233.317	-65.873	115.774	1.00	28.53	A	C
ATOM	1588	CG	LEU A	323	232.935	-65.689	114.325	1.00	29.77	A	C
ATOM	1589	CD1	LEU A	323	231.967	-66.804	113.984	1.00	24.59	A	C
ATOM	1590	CD2	LEU A	323	232.306	-64.288	114.046	1.00	30.36	A	C
ATOM	1591	C	LEU A	323	234.661	-65.226	117.824	1.00	40.81	A	C
ATOM	1592	O	LEU A	323	234.058	-64.495	118.618	1.00	36.74	A	O
ATOM	1593	N	VAL A	324	235.435	-66.247	118.216	1.00	38.37	A	N
ATOM	1594	CA	VAL A	324	235.629	-66.590	119.612	1.00	35.74	A	C
ATOM	1595	CB	VAL A	324	235.648	-68.102	119.816	1.00	37.17	A	C
ATOM	1596	CG1	VAL A	324	235.879	-68.419	121.294	1.00	34.96	A	C
ATOM	1597	CG2	VAL A	324	234.352	-68.697	119.303	1.00	26.08	A	C
ATOM	1598	C	VAL A	324	236.903	-66.012	120.154	1.00	35.95	A	C
ATOM	1599	O	VAL A	324	236.947	-65.631	121.301	1.00	44.11	A	O
ATOM	1600	N	GLY A	325	237.936	-65.929	119.330	1.00	41.01	A	N
ATOM	1601	CA	GLY A	325	239.198	-65.355	119.782	1.00	39.51	A	C
ATOM	1602	C	GLY A	325	240.283	-66.402	119.960	1.00	44.55	A	C

ATOM	1603	O	GLY A	325	241.414	-66.092	120.321	1.00	38.22	A	O
ATOM	1604	N	LYS A	326	239.929	-67.663	119.722	1.00	45.05	A	N
ATOM	1605	CA	LYS A	326	240.881	-68.764	119.861	1.00	45.42	A	C
ATOM	1606	CB	LYS A	326	240.994	-69.180	121.325	1.00	52.62	A	C
ATOM	1607	CG	LYS A	326	239.699	-69.600	121.927	1.00	55.78	A	C
ATOM	1608	CD	LYS A	326	239.856	-69.912	123.415	1.00	60.70	A	C
ATOM	1609	CE	LYS A	326	238.486	-70.233	124.058	1.00	66.17	A	C
ATOM	1610	NZ	LYS A	326	238.569	-70.651	125.479	1.00	62.77	A	N
ATOM	1611	C	LYS A	326	240.419	-69.937	119.005	1.00	46.11	A	C
ATOM	1612	O	LYS A	326	239.259	-70.074	118.767	1.00	39.63	A	O
ATOM	1613	N	PRO A	327	241.336	-70.820	118.568	1.00	53.36	A	N
ATOM	1614	CD	PRO A	327	242.773	-70.850	118.901	1.00	43.78	A	C
ATOM	1615	CA	PRO A	327	240.980	-71.968	117.726	1.00	41.74	A	C
ATOM	1616	CB	PRO A	327	242.331	-72.631	117.446	1.00	38.86	A	C
ATOM	1617	CG	PRO A	327	243.349	-71.561	117.738	1.00	42.00	A	C
ATOM	1618	C	PRO A	327	240.064	-72.895	118.474	1.00	40.42	A	C
ATOM	1619	O	PRO A	327	240.166	-73.021	119.700	1.00	46.66	A	O
ATOM	1620	N	PRO A	328	239.209	-73.624	117.743	1.00	40.91	A	N
ATOM	1621	CD	PRO A	328	239.083	-73.540	116.278	1.00	35.93	A	C
ATOM	1622	CA	PRO A	328	238.232	-74.572	118.297	1.00	43.34	A	C
ATOM	1623	CB	PRO A	328	237.340	-74.900	117.106	1.00	40.94	A	C
ATOM	1624	CG	PRO A	328	238.298	-74.799	115.948	1.00	38.83	A	C
ATOM	1625	C	PRO A	328	238.785	-75.820	118.933	1.00	44.48	A	C
ATOM	1626	O	PRO A	328	238.075	-76.507	119.657	1.00	56.46	A	O
ATOM	1627	N	PHE A	329	240.053	-76.118	118.674	1.00	50.25	A	N
ATOM	1628	CA	PHE A	329	240.691	-77.334	119.223	1.00	45.46	A	C
ATOM	1629	CB	PHE A	329	241.119	-78.268	118.089	1.00	42.34	A	C
ATOM	1630	CG	PHE A	329	240.026	-78.559	117.139	1.00	42.28	A	C
ATOM	1631	CD1	PHE A	329	238.895	-79.252	117.575	1.00	39.79	A	C
ATOM	1632	CD2	PHE A	329	240.097	-78.138	115.808	1.00	39.80	A	C
ATOM	1633	CE1	PHE A	329	237.824	-79.529	116.665	1.00	42.28	A	C
ATOM	1634	CE2	PHE A	329	239.034	-78.408	114.902	1.00	45.87	A	C
ATOM	1635	CZ	PHE A	329	237.903	-79.106	115.332	1.00	40.12	A	C
ATOM	1636	C	PHE A	329	241.904	-76.978	120.064	1.00	45.73	A	C
ATOM	1637	O	PHE A	329	242.769	-77.808	120.277	1.00	40.30	A	O
ATOM	1638	N	GLU A	330	241.958	-75.741	120.543	1.00	44.00	A	N
ATOM	1639	CA	GLU A	330	243.070	-75.285	121.345	1.00	50.19	A	C
ATOM	1640	CB	GLU A	330	242.855	-73.844	121.787	1.00	54.34	A	C
ATOM	1641	CG	GLU A	330	244.140	-73.087	122.035	1.00	65.74	A	C
ATOM	1642	CD	GLU A	330	243.932	-71.802	122.845	1.00	74.00	A	C
ATOM	1643	OE1	GLU A	330	244.822	-70.906	122.794	1.00	80.13	A	O
ATOM	1644	OE2	GLU A	330	242.884	-71.701	123.543	1.00	77.27	A	O
ATOM	1645	C	GLU A	330	243.172	-76.161	122.550	1.00	51.87	A	C
ATOM	1646	O	GLU A	330	242.158	-76.668	123.029	1.00	54.61	A	O
ATOM	1647	N	ALA A	331	244.404	-76.359	123.020	1.00	56.85	A	O
ATOM	1648	CA	ALA A	331	244.680	-77.163	124.217	1.00	60.04	A	N
ATOM	1649	CB	ALA A	331	244.791	-78.618	123.872	1.00	51.13	A	C
ATOM	1650	C	ALA A	331	245.992	-76.676	124.795	1.00	60.84	A	C
ATOM	1651	O	ALA A	331	246.630	-75.805	124.208	1.00	69.22	A	O
ATOM	1652	N	ASN A	332	246.378	-77.197	125.962	1.00	64.86	A	N
ATOM	1653	CA	ASN A	332	247.637	-76.790	126.560	1.00	61.08	A	C
ATOM	1654	CB	ASN A	332	247.514	-76.742	128.100	1.00	60.00	A	C
ATOM	1655	CG	ASN A	332	246.822	-75.435	128.611	1.00	67.42	A	C
ATOM	1656	OD1	ASN A	332	247.429	-74.359	128.654	1.00	68.56	A	O
ATOM	1657	ND2	ASN A	332	245.547	-75.544	129.000	1.00	72.60	A	N
ATOM	1658	C	ASN A	332	248.807	-77.666	126.080	1.00	60.05	A	C
ATOM	1659	O	ASN A	332	249.966	-77.257	126.234	1.00	65.40	A	O
ATOM	1660	N	THR A	333	248.512	-78.823	125.460	1.00	53.02	A	N
ATOM	1661	CA	THR A	333	249.562	-79.745	124.976	1.00	54.16	A	C
ATOM	1662	CB	THR A	333	249.652	-81.103	125.782	1.00	55.23	A	C
ATOM	1663	OG1	THR A	333	248.822	-82.111	125.160	1.00	53.00	A	O
ATOM	1664	CG2	THR A	333	249.296	-80.907	127.225	1.00	55.86	A	C
ATOM	1665	C	THR A	333	249.400	-80.153	123.497	1.00	59.22	A	C
ATOM	1666	O	THR A	333	248.379	-79.845	122.897	1.00	59.44	A	C
ATOM	1667	N	TYR A	334	250.358	-80.901	122.930	1.00	66.35	A	N
ATOM	1668	CA	TYR A	334	250.331	-81.305	121.506	1.00	67.76	A	C
ATOM	1669	CB	TYR A	334	251.770	-81.458	120.999	1.00	65.59	A	C
ATOM	1670	CG	TYR A	334	251.922	-82.193	119.636	1.00	60.98	A	C
ATOM	1671	CD1	TYR A	334	252.369	-81.519	118.539	1.00	58.37	A	C
ATOM	1672	CE1	TYR A	334	252.454	-82.152	117.323	1.00	57.12	A	C

ATOM	1673	CD2	TYR A	334	251.556	-83.561	119.454	1.00	60.46	A	C
ATOM	1674	CE2	TYR A	334	251.612	-84.203	118.235	1.00	54.51	A	C
ATOM	1675	CZ	TYR A	334	252.081	-83.483	117.170	1.00	61.53	A	C
ATOM	1676	OH	TYR A	334	252.259	-84.054	115.932	1.00	64.63	A	O
ATOM	1677	C	TYR A	334	249.706	-82.673	121.408	1.00	72.76	A	C
ATOM	1678	O	TYR A	334	249.561	-83.257	120.347	1.00	80.80	A	O
ATOM	1679	N	GLN A	335	249.281	-83.198	122.511	1.00	75.82	A	N
ATOM	1680	CA	GLN A	335	248.849	-84.550	122.438	1.00	75.10	A	C
ATOM	1681	CB	GLN A	335	249.822	-85.260	123.381	1.00	74.39	A	C
ATOM	1682	CG	GLN A	335	251.326	-84.889	123.021	1.00	71.11	A	C
ATOM	1683	CD	GLN A	335	252.200	-84.301	124.134	1.00	70.17	A	C
ATOM	1684	OE1	GLN A	335	253.434	-84.204	123.959	1.00	71.56	A	O
ATOM	1685	NE2	GLN A	335	251.605	-83.897	125.269	1.00	67.14	A	N
ATOM	1686	C	GLN A	335	247.415	-84.426	122.926	1.00	72.12	A	C
ATOM	1687	O	GLN A	335	246.584	-85.314	122.698	1.00	70.11	A	O
ATOM	1688	N	GLU A	336	247.129	-83.272	123.527	1.00	67.17	A	N
ATOM	1689	CA	GLU A	336	245.815	-82.981	124.050	1.00	66.23	A	C
ATOM	1690	CB	GLU A	336	245.911	-81.929	125.131	1.00	54.23	A	C
ATOM	1691	C	GLU A	336	245.132	-82.389	122.779	1.00	63.60	A	C
ATOM	1692	O	GLU A	336	243.998	-82.726	122.478	1.00	68.92	A	O
ATOM	1693	N	THR A	337	245.807	-81.474	122.060	1.00	63.51	A	N
ATOM	1694	CA	THR A	337	245.246	-80.840	120.863	1.00	45.32	A	C
ATOM	1695	CB	THR A	337	246.221	-79.805	120.292	1.00	48.60	A	C
ATOM	1696	OG1	THR A	337	246.433	-78.730	121.227	1.00	44.49	A	O
ATOM	1697	CG2	THR A	337	245.691	-79.262	118.948	1.00	33.80	A	C
ATOM	1698	C	THR A	337	245.031	-81.916	119.825	1.00	55.74	A	C
ATOM	1699	O	THR A	337	244.036	-81.911	119.094	1.00	53.43	A	O
ATOM	1700	N	TYR A	338	245.979	-82.848	119.758	1.00	62.69	A	N
ATOM	1701	CA	TYR A	338	245.902	-83.948	118.795	1.00	62.09	A	C
ATOM	1702	CB	TYR A	338	247.056	-84.923	119.028	1.00	70.33	A	C
ATOM	1703	CG	TYR A	338	247.098	-86.080	118.034	1.00	74.69	A	C
ATOM	1704	CD1	TYR A	338	248.041	-86.116	117.016	1.00	72.79	A	C
ATOM	1705	CE1	TYR A	338	248.050	-87.154	116.101	1.00	75.92	A	C
ATOM	1706	CD2	TYR A	338	246.167	-87.121	118.096	1.00	70.94	A	C
ATOM	1707	CE2	TYR A	338	246.167	-88.153	117.173	1.00	73.14	A	C
ATOM	1708	CZ	TYR A	338	247.102	-88.168	116.186	1.00	73.24	A	C
ATOM	1709	OH	TYR A	338	247.091	-89.196	115.273	1.00	74.46	A	O
ATOM	1710	C	TYR A	338	244.586	-84.698	118.971	1.00	62.03	A	C
ATOM	1711	O	TYR A	338	243.884	-85.017	117.982	1.00	52.46	A	O
ATOM	1712	N	LYS A	339	244.267	-84.991	120.242	1.00	58.53	A	N
ATOM	1713	CA	LYS A	339	243.048	-85.733	120.587	1.00	51.87	A	C
ATOM	1714	CB	LYS A	339	243.020	-86.042	122.063	1.00	52.84	A	C
ATOM	1715	C	LYS A	339	241.791	-84.990	120.165	1.00	50.97	A	C
ATOM	1716	O	LYS A	339	240.975	-85.531	119.412	1.00	50.87	A	O
ATOM	1717	N	ARG A	340	241.675	-83.725	120.575	1.00	44.05	A	N
ATOM	1718	CA	ARG A	340	240.507	-82.938	120.230	1.00	47.22	A	C
ATOM	1719	CB	ARG A	340	240.532	-81.574	120.904	1.00	45.76	A	C
ATOM	1720	CG	ARG A	340	240.286	-81.607	122.398	1.00	52.85	A	C
ATOM	1721	CD	ARG A	340	240.241	-80.202	122.999	1.00	59.79	A	C
ATOM	1722	NE	ARG A	340	239.045	-79.491	122.535	1.00	67.64	A	N
ATOM	1723	CZ	ARG A	340	238.843	-78.186	122.672	1.00	65.86	A	C
ATOM	1724	NH1	ARG A	340	239.763	-77.446	123.254	1.00	67.71	A	N
ATOM	1725	NH2	ARG A	340	237.722	-77.631	122.240	1.00	68.60	A	N
ATOM	1726	C	ARG A	340	240.299	-82.765	118.738	1.00	46.20	A	C
ATOM	1727	O	ARG A	340	239.144	-82.785	118.274	1.00	48.74	A	O
ATOM	1728	N	ILE A	341	241.387	-82.597	117.979	1.00	47.52	A	N
ATOM	1729	CA	ILE A	341	241.253	-82.462	116.511	1.00	49.01	A	C
ATOM	1730	CB	ILE A	341	242.586	-82.067	115.787	1.00	48.35	A	C
ATOM	1731	CG2	ILE A	341	242.367	-82.130	114.290	1.00	34.18	A	C
ATOM	1732	CG1	ILE A	341	243.053	-80.674	116.236	1.00	44.80	A	C
ATOM	1733	CD1	ILE A	341	244.317	-80.259	115.592	1.00	47.34	A	C
ATOM	1734	C	ILE A	341	240.783	-83.752	115.851	1.00	53.55	A	C
ATOM	1735	O	ILE A	341	239.936	-83.734	114.948	1.00	44.79	A	O
ATOM	1736	N	SER A	342	241.369	-84.867	116.286	1.00	59.31	A	N
ATOM	1737	CA	SER A	342	241.014	-86.175	115.743	1.00	65.95	A	C
ATOM	1738	CB	SER A	342	242.037	-87.227	116.158	1.00	66.33	A	C
ATOM	1739	OG	SER A	342	241.613	-88.516	115.745	1.00	63.35	A	O
ATOM	1740	C	SER A	342	239.628	-86.604	116.202	1.00	65.99	A	C
ATOM	1741	O	SER A	342	238.941	-87.327	115.475	1.00	61.18	A	O
ATOM	1742	N	ARG A	343	239.232	-86.162	117.400	1.00	61.34	A	N

ATOM	1743	CA	ARG A	343	237.910	-86.478	117.932	1.00	59.46	A	C
ATOM	1744	CB	ARG A	343	237.888	-86.410	119.456	1.00	58.77	A	C
ATOM	1745	CG	ARG A	343	238.466	-87.604	120.201	1.00	47.50	A	C
ATOM	1746	CD	ARG A	343	238.360	-87.314	121.675	1.00	60.64	A	C
ATOM	1747	NE	ARG A	343	238.972	-88.327	122.530	1.00	66.55	A	N
ATOM	1748	CZ	ARG A	343	238.930	-88.278	123.865	1.00	74.36	A	C
ATOM	1749	NH1	ARG A	343	238.309	-87.268	124.510	1.00	73.84	A	N
ATOM	1750	NH2	ARG A	343	239.502	-89.248	124.573	1.00	82.35	A	N
ATOM	1751	C	ARG A	343	236.902	-85.448	117.406	1.00	62.95	A	C
ATOM	1752	O	ARG A	343	235.682	-85.706	117.372	1.00	61.25	A	O
ATOM	1753	N	VAL A	344	237.421	-84.275	117.011	1.00	62.37	A	N
ATOM	1754	CA	VAL A	344	236.592	-83.163	116.517	1.00	52.53	A	C
ATOM	1755	CB	VAL A	344	235.625	-83.614	115.386	1.00	46.83	A	C
ATOM	1756	CG1	VAL A	344	235.005	-82.383	114.685	1.00	30.17	A	C
ATOM	1757	CG2	VAL A	344	236.378	-84.445	114.375	1.00	41.05	A	C
ATOM	1758	C	VAL A	344	235.794	-82.735	117.737	1.00	56.35	A	C
ATOM	1759	O	VAL A	344	234.569	-82.790	117.750	1.00	58.20	A	O
ATOM	1760	N	GLU A	345	236.521	-82.345	118.775	1.00	52.70	A	N
ATOM	1761	CA	GLU A	345	235.945	-81.929	120.037	1.00	55.50	A	C
ATOM	1762	CB	GLU A	345	236.726	-82.610	121.170	1.00	59.39	A	C
ATOM	1763	CG	GLU A	345	236.049	-82.656	122.512	1.00	70.94	A	C
ATOM	1764	CD	GLU A	345	236.741	-83.623	123.456	1.00	80.37	A	C
ATOM	1765	OE1	GLU A	345	236.904	-84.815	123.076	1.00	83.68	A	O
ATOM	1766	OE2	GLU A	345	237.114	-83.190	124.572	1.00	84.85	A	O
ATOM	1767	C	GLU A	345	235.984	-80.414	120.226	1.00	55.94	A	C
ATOM	1768	O	GLU A	345	237.012	-79.866	120.647	1.00	52.34	A	O
ATOM	1769	N	PHE A	346	234.868	-79.746	119.941	1.00	55.31	A	N
ATOM	1770	CA	PHE A	346	234.777	-78.298	120.123	1.00	58.97	A	C
ATOM	1771	CB	PHE A	346	235.238	-77.601	118.840	1.00	55.59	A	C
ATOM	1772	CG	PHE A	346	234.247	-77.671	117.721	1.00	51.30	A	C
ATOM	1773	CD1	PHE A	346	233.315	-76.667	117.540	1.00	47.92	A	C
ATOM	1774	CD2	PHE A	346	234.261	-78.734	116.842	1.00	51.74	A	C
ATOM	1775	CE1	PHE A	346	232.396	-76.715	116.483	1.00	54.03	A	C
ATOM	1776	CE2	PHE A	346	233.348	-78.810	115.764	1.00	54.32	A	C
ATOM	1777	CZ	PHE A	346	232.409	-77.803	115.575	1.00	51.48	A	C
ATOM	1778	C	PHE A	346	233.356	-77.832	120.501	1.00	60.04	A	C
ATOM	1779	O	PHE A	346	232.368	-78.494	120.173	1.00	69.92	A	O
ATOM	1780	N	THR A	347	233.261	-76.697	121.184	1.00	56.17	A	N
ATOM	1781	CA	THR A	347	231.979	-76.158	121.555	1.00	54.44	A	C
ATOM	1782	CB	THR A	347	231.732	-76.329	123.013	1.00	47.09	A	C
ATOM	1783	OG1	THR A	347	232.718	-75.600	123.725	1.00	47.43	A	O
ATOM	1784	CG2	THR A	347	231.799	-77.783	123.402	1.00	48.24	A	C
ATOM	1785	C	THR A	347	231.885	-74.683	121.223	1.00	56.33	A	C
ATOM	1786	O	THR A	347	232.902	-73.985	121.113	1.00	62.80	A	O
ATOM	1787	N	PHE A	348	230.646	-74.235	120.999	1.00	63.69	A	N
ATOM	1788	CA	PHE A	348	230.389	-72.815	120.723	1.00	65.89	A	C
ATOM	1789	CB	PHE A	348	229.306	-72.558	119.708	1.00	57.72	A	C
ATOM	1790	CG	PHE A	348	229.584	-73.148	118.381	1.00	55.81	A	C
ATOM	1791	CD1	PHE A	348	229.017	-74.364	118.020	1.00	51.99	A	C
ATOM	1792	CD2	PHE A	348	230.337	-72.462	117.450	1.00	53.67	A	C
ATOM	1793	CE1	PHE A	348	229.171	-74.857	116.780	1.00	46.52	A	C
ATOM	1794	CE2	PHE A	348	230.492	-72.966	116.190	1.00	50.86	A	C
ATOM	1795	CZ	PHE A	348	229.903	-74.166	115.860	1.00	51.38	A	C
ATOM	1796	C	PHE A	348	229.966	-72.048	121.961	1.00	65.81	A	C
ATOM	1797	O	PHE A	348	229.223	-72.532	122.808	1.00	73.51	A	O
ATOM	1798	N	PRO A	349	230.578	-70.898	122.150	1.00	59.06	A	N
ATOM	1799	CD	PRO A	349	232.018	-71.026	121.861	1.00	61.27	A	C
ATOM	1800	CA	PRO A	349	230.381	-69.933	123.199	1.00	56.66	A	C
ATOM	1801	CB	PRO A	349	231.466	-68.944	122.870	1.00	58.77	A	C
ATOM	1802	CG	PRO A	349	232.627	-69.875	122.485	1.00	55.14	A	C
ATOM	1803	C	PRO A	349	228.929	-69.409	122.948	1.00	57.97	A	C
ATOM	1804	O	PRO A	349	228.312	-69.642	121.916	1.00	59.47	A	O
ATOM	1805	N	ASP A	350	228.344	-68.735	123.909	1.00	59.19	A	N
ATOM	1806	CA	ASP A	350	226.961	-68.282	123.714	1.00	51.98	A	C
ATOM	1807	CB	ASP A	350	226.338	-67.819	125.044	1.00	65.27	A	C
ATOM	1808	CG	ASP A	350	226.140	-68.958	126.020	1.00	72.68	A	C
ATOM	1809	OD1	ASP A	350	225.764	-68.668	127.188	1.00	77.91	A	O
ATOM	1810	OD2	ASP A	350	226.359	-70.131	125.607	1.00	78.14	A	O
ATOM	1811	C	ASP A	350	226.787	-67.197	122.665	1.00	54.69	A	C
ATOM	1812	O	ASP A	350	225.753	-67.202	121.947	1.00	40.28	A	O

ATOM	1813	N	PHE	A	351	227.786	-66.308	122.539	1.00	47.45	A	N
ATOM	1814	CA	PHE	A	351	227.682	-65.217	121.584	1.00	51.83	A	C
ATOM	1815	CB	PHE	A	351	228.693	-64.106	121.893	1.00	48.14	A	C
ATOM	1816	CG	PHE	A	351	230.108	-64.580	122.004	1.00	51.21	A	C
ATOM	1817	CD1	PHE	A	351	230.589	-65.111	123.207	1.00	49.73	A	C
ATOM	1818	CD2	PHE	A	351	230.979	-64.468	120.915	1.00	46.79	A	C
ATOM	1819	CE1	PHE	A	351	231.906	-65.506	123.312	1.00	48.51	A	C
ATOM	1820	CE2	PHE	A	351	232.294	-64.864	121.026	1.00	47.18	A	C
ATOM	1821	CZ	PHE	A	351	232.758	-65.379	122.215	1.00	45.61	A	C
ATOM	1822	C	PHE	A	351	227.797	-65.610	120.125	1.00	52.56	A	C
ATOM	1823	O	PHE	A	351	227.604	-64.771	119.250	1.00	57.29	A	O
ATOM	1824	N	VAL	A	352	228.115	-66.874	119.863	1.00	54.95	A	N
ATOM	1825	CA	VAL	A	352	228.263	-67.341	118.495	1.00	48.00	A	C
ATOM	1826	CB	VAL	A	352	229.145	-68.621	118.432	1.00	43.19	A	C
ATOM	1827	CG1	VAL	A	352	229.300	-69.094	117.035	1.00	33.61	A	C
ATOM	1828	CG2	VAL	A	352	230.509	-68.325	118.972	1.00	39.08	A	C
ATOM	1829	C	VAL	A	352	226.875	-67.603	117.916	1.00	48.25	A	C
ATOM	1830	O	VAL	A	352	226.211	-68.567	118.255	1.00	51.46	A	O
ATOM	1831	N	THR	A	353	226.446	-66.748	117.004	1.00	47.51	A	N
ATOM	1832	CA	THR	A	353	225.122	-66.886	116.413	1.00	53.02	A	C
ATOM	1833	CB	THR	A	353	224.844	-65.817	115.383	1.00	47.94	A	C
ATOM	1834	OG1	THR	A	353	225.671	-66.052	114.246	1.00	54.22	A	O
ATOM	1835	CG2	THR	A	353	225.130	-64.437	115.950	1.00	47.89	A	C
ATOM	1836	C	THR	A	353	224.908	-68.227	115.753	1.00	52.60	A	C
ATOM	1837	O	THR	A	353	225.851	-68.974	115.552	1.00	52.94	A	O
ATOM	1838	N	GLU	A	354	223.654	-68.513	115.404	1.00	55.25	A	N
ATOM	1839	CA	GLU	A	354	223.259	-69.786	114.819	1.00	56.40	A	C
ATOM	1840	CB	GLU	A	354	221.736	-69.929	114.829	1.00	53.45	A	C
ATOM	1841	C	GLU	A	354	223.762	-69.866	113.416	1.00	56.12	A	C
ATOM	1842	O	GLU	A	354	224.078	-70.954	112.927	1.00	62.85	A	O
ATOM	1843	N	GLY	A	355	223.831	-68.718	112.749	1.00	61.99	A	N
ATOM	1844	CA	GLY	A	355	224.317	-68.699	111.373	1.00	52.27	A	C
ATOM	1845	C	GLY	A	355	225.787	-69.093	111.250	1.00	52.90	A	C
ATOM	1846	O	GLY	A	355	226.166	-69.822	110.327	1.00	47.53	A	O
ATOM	1847	N	ALA	A	356	226.611	-68.602	112.182	1.00	47.86	A	N
ATOM	1848	CA	ALA	A	356	228.022	-68.912	112.199	1.00	45.96	A	C
ATOM	1849	CB	ALA	A	356	228.721	-67.995	113.123	1.00	42.05	A	C
ATOM	1850	C	ALA	A	356	228.221	-70.359	112.627	1.00	47.72	A	C
ATOM	1851	O	ALA	A	356	229.011	-71.078	112.025	1.00	46.93	A	O
ATOM	1852	N	ARG	A	357	227.486	-70.784	113.651	1.00	49.03	A	N
ATOM	1853	CA	ARG	A	357	227.558	-72.153	114.146	1.00	56.76	A	C
ATOM	1854	CB	ARG	A	357	226.549	-72.374	115.280	1.00	55.71	A	C
ATOM	1855	CG	ARG	A	357	226.876	-71.606	116.583	1.00	57.21	A	C
ATOM	1856	CD	ARG	A	357	226.018	-72.108	117.752	1.00	41.40	A	C
ATOM	1857	NE	ARG	A	357	226.260	-71.310	118.928	1.00	43.14	A	N
ATOM	1858	CZ	ARG	A	357	225.979	-71.698	120.148	1.00	39.58	A	C
ATOM	1859	NH1	ARG	A	357	225.456	-72.893	120.340	1.00	42.66	A	N
ATOM	1860	NH2	ARG	A	357	226.191	-70.869	121.163	1.00	51.41	A	N
ATOM	1861	C	ARG	A	357	227.299	-73.181	113.043	1.00	58.61	A	C
ATOM	1862	O	ARG	A	357	227.922	-74.260	112.996	1.00	62.70	A	O
ATOM	1863	N	ASP	A	358	226.383	-72.845	112.150	1.00	56.80	A	N
ATOM	1864	CA	ASP	A	358	226.053	-73.738	111.055	1.00	56.49	A	C
ATOM	1865	CB	ASP	A	358	224.792	-73.245	110.363	1.00	59.12	A	C
ATOM	1866	CG	ASP	A	358	224.380	-74.141	109.209	1.00	65.41	A	C
ATOM	1867	OD1	ASP	A	358	224.036	-75.319	109.461	1.00	60.89	A	O
ATOM	1868	OD2	ASP	A	358	224.403	-73.669	108.049	1.00	68.71	A	O
ATOM	1869	C	ASP	A	358	227.178	-73.837	110.017	1.00	56.31	A	C
ATOM	1870	O	ASP	A	358	227.523	-74.915	109.545	1.00	56.62	A	O
ATOM	1871	N	LEU	A	359	227.735	-72.694	109.640	1.00	57.58	A	N
ATOM	1872	CA	LEU	A	359	228.812	-72.663	108.658	1.00	55.45	A	C
ATOM	1873	CB	LEU	A	359	229.158	-71.227	108.302	1.00	53.49	A	C
ATOM	1874	CG	LEU	A	359	230.326	-71.029	107.344	1.00	49.10	A	C
ATOM	1875	CD1	LEU	A	359	230.077	-71.756	106.082	1.00	42.56	A	C
ATOM	1876	CD2	LEU	A	359	230.525	-69.538	107.083	1.00	51.15	A	C
ATOM	1877	C	LEU	A	359	230.048	-73.366	109.200	1.00	57.66	A	C
ATOM	1878	O	LEU	A	359	230.680	-74.142	108.481	1.00	65.55	A	O
ATOM	1879	N	ILE	A	360	230.370	-73.121	110.470	1.00	49.19	A	N
ATOM	1880	CA	ILE	A	360	231.535	-73.740	111.089	1.00	43.07	A	C
ATOM	1881	CB	ILE	A	360	231.819	-73.111	112.485	1.00	35.85	A	C
ATOM	1882	CG2	ILE	A	360	232.892	-73.858	113.220	1.00	37.90	A	C

ATOM	1883	CG1	ILE A	360	232.254	-71.652	112.301	1.00	32.36	A	C
ATOM	1884	CD1	ILE A	360	232.250	-70.839	113.653	1.00	27.28	A	C
ATOM	1885	C	ILE A	360	231.368	-75.240	111.229	1.00	40.84	A	C
ATOM	1886	O	ILE A	360	232.330	-75.980	111.042	1.00	44.75	A	O
ATOM	1887	N	SER A	361	230.158	-75.670	111.591	1.00	46.60	A	N
ATOM	1888	CA	SER A	361	229.855	-77.089	111.780	1.00	52.65	A	C
ATOM	1889	CB	SER A	361	228.546	-77.265	112.526	1.00	49.78	A	C
ATOM	1890	OG	SER A	361	228.742	-77.062	113.925	1.00	60.97	A	O
ATOM	1891	C	SER A	361	229.827	-77.906	110.497	1.00	53.49	A	C
ATOM	1892	O	SER A	361	229.885	-79.159	110.538	1.00	53.09	A	O
ATOM	1893	N	ARG A	362	229.799	-77.198	109.368	1.00	54.39	A	N
ATOM	1894	CA	ARG A	362	229.796	-77.841	108.066	1.00	52.12	A	C
ATOM	1895	CB	ARG A	362	229.033	-76.978	107.065	1.00	59.93	A	C
ATOM	1896	CG	ARG A	362	227.535	-76.862	107.327	1.00	61.75	A	C
ATOM	1897	CD	ARG A	362	226.887	-75.820	106.401	1.00	69.51	A	C
ATOM	1898	NE	ARG A	362	225.432	-75.784	106.547	1.00	76.19	A	N
ATOM	1899	CZ	ARG A	362	224.625	-76.795	106.216	1.00	80.23	A	C
ATOM	1900	NH1	ARG A	362	225.128	-77.919	105.716	1.00	81.25	A	N
ATOM	1901	NH2	ARG A	362	223.313	-76.697	106.397	1.00	77.76	A	N
ATOM	1902	C	ARG A	362	231.211	-78.066	107.537	1.00	49.26	A	C
ATOM	1903	O	ARG A	362	231.460	-79.036	106.822	1.00	49.03	A	O
ATOM	1904	N	LEU A	363	232.120	-77.162	107.891	1.00	49.05	A	N
ATOM	1905	CA	LEU A	363	233.493	-77.234	107.438	1.00	46.81	A	C
ATOM	1906	CB	LEU A	363	234.134	-75.850	107.508	1.00	42.60	A	C
ATOM	1907	CG	LEU A	363	233.457	-74.729	106.714	1.00	44.53	A	C
ATOM	1908	CD1	LEU A	363	234.050	-73.356	107.133	1.00	43.18	A	C
ATOM	1909	CD2	LEU A	363	233.602	-74.961	105.258	1.00	42.47	A	C
ATOM	1910	C	LEU A	363	234.270	-78.228	108.280	1.00	49.03	A	C
ATOM	1911	O	LEU A	363	235.049	-79.020	107.751	1.00	57.90	A	O
ATOM	1912	N	LEU A	364	234.062	-78.186	109.589	1.00	47.92	A	N
ATOM	1913	CA	LEU A	364	234.774	-79.071	110.488	1.00	49.66	A	C
ATOM	1914	CB	LEU A	364	234.792	-78.462	111.909	1.00	46.24	A	C
ATOM	1915	CG	LEU A	364	235.511	-77.115	112.043	1.00	47.59	A	C
ATOM	1916	CD1	LEU A	364	235.230	-76.547	113.413	1.00	44.59	A	C
ATOM	1917	CD2	LEU A	364	237.029	-77.318	111.836	1.00	45.40	A	C
ATOM	1918	C	LEU A	364	234.233	-80.493	110.526	1.00	50.53	A	C
ATOM	1919	O	LEU A	364	233.804	-80.963	111.575	1.00	56.94	A	O
ATOM	1920	N	LYS A	365	234.267	-81.178	109.385	1.00	61.00	A	N
ATOM	1921	CA	LYS A	365	233.796	-82.564	109.263	1.00	64.52	A	C
ATOM	1922	CB	LYS A	365	233.059	-82.728	107.925	1.00	60.48	A	C
ATOM	1923	CG	LYS A	365	231.753	-81.921	107.829	1.00	53.27	A	C
ATOM	1924	CD	LYS A	365	230.702	-82.412	108.828	1.00	61.58	A	C
ATOM	1925	CE	LYS A	365	229.295	-81.895	108.447	1.00	59.92	A	C
ATOM	1926	NZ	LYS A	365	228.297	-82.223	109.508	1.00	75.42	A	N
ATOM	1927	C	LYS A	365	235.026	-83.500	109.392	1.00	66.56	A	C
ATOM	1928	O	LYS A	365	236.146	-83.084	109.123	1.00	71.71	A	O
ATOM	1929	N	HIS A	366	234.844	-84.748	109.813	1.00	68.20	A	N
ATOM	1930	CA	HIS A	366	236.011	-85.628	110.015	1.00	67.59	A	C
ATOM	1931	CB	HIS A	366	235.781	-86.664	111.109	1.00	66.12	A	C
ATOM	1932	CG	HIS A	366	236.913	-87.628	111.242	1.00	68.47	A	C
ATOM	1933	CD2	HIS A	366	237.810	-87.749	112.245	1.00	66.88	A	C
ATOM	1934	ND1	HIS A	366	237.332	-88.487	110.238	1.00	66.01	A	N
ATOM	1935	CE1	HIS A	366	238.454	-89.075	110.623	1.00	70.20	A	C
ATOM	1936	NE2	HIS A	366	238.761	-88.643	111.832	1.00	64.97	A	N
ATOM	1937	C	HIS A	366	236.184	-86.385	108.739	1.00	68.25	A	C
ATOM	1938	O	HIS A	366	237.098	-87.249	108.572	1.00	74.87	A	O
ATOM	1939	N	ASN A	367	235.262	-86.111	107.848	1.00	65.45	A	N
ATOM	1940	CA	ASN A	367	235.379	-86.795	106.656	1.00	62.21	A	C
ATOM	1941	CB	ASN A	367	234.189	-87.664	106.498	1.00	64.61	A	C
ATOM	1942	CG	ASN A	367	234.335	-88.548	105.333	1.00	69.77	A	C
ATOM	1943	OD1	ASN A	367	234.339	-88.071	104.175	1.00	65.35	A	O
ATOM	1944	ND2	ASN A	367	234.518	-89.655	105.596	1.00	69.27	A	N
ATOM	1945	C	ASN A	367	235.504	-85.791	105.596	1.00	60.17	A	C
ATOM	1946	O	ASN A	367	234.685	-84.923	105.475	1.00	67.65	A	O
ATOM	1947	N	PRO A	368	236.650	-85.797	104.923	1.00	60.54	A	N
ATOM	1948	CD	PRO A	368	237.382	-86.364	105.504	1.00	55.35	A	C
ATOM	1949	CA	PRO A	368	236.981	-84.895	103.820	1.00	55.82	A	C
ATOM	1950	CB	PRO A	368	238.199	-85.537	103.245	1.00	50.93	A	C
ATOM	1951	CG	PRO A	368	238.938	-85.936	104.468	1.00	54.85	A	C
ATOM	1952	C	PRO A	368	235.870	-84.741	102.783	1.00	59.90	A	C

ATOM	1953	O	PRO A	368	235.706	-83.658	102.240	1.00	61.00	A	O
ATOM	1954	N	SER A	369	235.093	-85.805	102.557	1.00	69.67	A	N
ATOM	1955	CA	SER A	369	234.000	-85.800	101.588	1.00	72.88	A	C
ATOM	1956	CB	SER A	369	233.537	-87.237	101.347	1.00	75.22	A	C
ATOM	1957	OG	SER A	369	234.654	-88.115	101.256	1.00	85.92	A	O
ATOM	1958	C	SER A	369	232.810	-84.951	102.046	1.00	71.84	A	C
ATOM	1959	O	SER A	369	232.217	-84.231	101.229	1.00	75.53	A	O
ATOM	1960	N	GLN A	370	232.465	-85.039	103.333	1.00	67.85	A	N
ATOM	1961	CA	GLN A	370	231.339	-84.296	103.865	1.00	62.69	A	C
ATOM	1962	CB	GLN A	370	231.067	-84.743	105.296	1.00	64.15	A	C
ATOM	1963	CG	GLN A	370	230.629	-86.190	105.390	1.00	65.40	A	C
ATOM	1964	CD	GLN A	370	230.923	-86.768	106.745	1.00	69.41	A	C
ATOM	1965	OE1	GLN A	370	230.904	-86.051	107.752	1.00	75.34	A	O
ATOM	1966	NE2	GLN A	370	231.189	-88.073	106.792	1.00	63.71	A	N
ATOM	1967	C	GLN A	370	231.551	-82.778	103.799	1.00	63.34	A	C
ATOM	1968	O	GLN A	370	230.582	-82.028	103.608	1.00	65.90	A	O
ATOM	1969	N	ARG A	371	232.802	-82.324	103.934	1.00	56.18	A	N
ATOM	1970	CA	ARG A	371	233.085	-80.905	103.889	1.00	54.33	A	C
ATOM	1971	CB	ARG A	371	234.581	-80.691	103.961	1.00	48.64	A	C
ATOM	1972	CG	ARG A	371	235.109	-80.785	105.354	1.00	46.61	A	C
ATOM	1973	CD	ARG A	371	236.618	-80.922	105.403	1.00	43.30	A	C
ATOM	1974	NE	ARG A	371	236.988	-81.971	106.350	1.00	42.51	A	N
ATOM	1975	CZ	ARG A	371	238.208	-82.476	106.436	1.00	42.45	A	C
ATOM	1976	NH1	ARG A	371	239.165	-81.997	105.635	1.00	36.24	A	N
ATOM	1977	NH2	ARG A	371	238.449	-83.494	107.266	1.00	33.74	A	N
ATOM	1978	C	ARG A	371	232.496	-80.275	102.651	1.00	56.25	A	C
ATOM	1979	O	ARG A	371	232.578	-80.836	101.587	1.00	64.77	A	O
ATOM	1980	N	PRO A	372	231.885	-79.089	102.783	1.00	60.04	A	N
ATOM	1981	CD	PRO A	372	231.813	-78.305	104.029	1.00	57.31	A	C
ATOM	1982	CA	PRO A	372	231.260	-78.365	101.659	1.00	57.19	A	C
ATOM	1983	CB	PRO A	372	230.522	-77.231	102.348	1.00	55.89	A	C
ATOM	1984	CG	PRO A	372	231.448	-76.927	103.522	1.00	60.48	A	C
ATOM	1985	C	PRO A	372	232.227	-77.848	100.593	1.00	59.74	A	C
ATOM	1986	O	PRO A	372	233.424	-77.896	100.753	1.00	60.73	A	O
ATOM	1987	N	MET A	373	231.685	-77.356	99.497	1.00	66.48	A	N
ATOM	1988	CA	MET A	373	232.482	-76.838	98.412	1.00	72.53	A	C
ATOM	1989	CB	MET A	373	231.763	-77.051	97.082	1.00	78.23	A	C
ATOM	1990	CG	MET A	373	232.541	-77.969	96.165	1.00	91.60	A	C
ATOM	1991	SD	MET A	373	231.857	-78.033	94.463	1.00	92.28	A	S
ATOM	1992	CE	MET A	373	230.337	-78.924	94.769	1.00	97.23	A	C
ATOM	1993	C	MET A	373	232.631	-75.339	98.682	1.00	69.48	A	C
ATOM	1994	O	MET A	373	231.861	-74.740	99.424	1.00	71.05	A	O
ATOM	1995	N	LEU A	374	233.618	-74.722	98.060	1.00	66.97	A	N
ATOM	1996	CA	LEU A	374	233.847	-73.303	98.261	1.00	65.90	A	C
ATOM	1997	CB	LEU A	374	235.155	-72.857	97.562	1.00	58.73	A	C
ATOM	1998	CG	LEU A	374	236.446	-73.311	98.258	1.00	51.64	A	C
ATOM	1999	CD1	LEU A	374	237.625	-73.104	97.321	1.00	47.33	A	C
ATOM	2000	CD2	LEU A	374	236.629	-72.531	99.548	1.00	52.27	A	C
ATOM	2001	C	LEU A	374	232.660	-72.469	97.798	1.00	67.13	A	C
ATOM	2002	O	LEU A	374	232.500	-71.320	98.219	1.00	75.20	A	O
ATOM	2003	N	ARG A	375	231.814	-73.025	96.939	1.00	67.09	A	N
ATOM	2004	CA	ARG A	375	230.654	-72.254	96.482	1.00	63.14	A	C
ATOM	2005	CB	ARG A	375	230.122	-72.780	95.162	1.00	60.43	A	C
ATOM	2006	C	ARG A	375	229.561	-72.275	97.541	1.00	63.36	A	C
ATOM	2007	O	ARG A	375	228.882	-71.261	97.734	1.00	64.17	A	O
ATOM	2008	N	GLU A	376	229.413	-73.397	98.245	1.00	56.91	A	N
ATOM	2009	CA	GLU A	376	228.404	-73.501	99.306	1.00	64.22	A	C
ATOM	2010	CB	GLU A	376	228.314	-74.947	99.815	1.00	67.11	A	C
ATOM	2011	CG	GLU A	376	227.797	-75.921	98.783	1.00	81.78	A	C
ATOM	2012	CD	GLU A	376	228.016	-77.372	99.187	1.00	87.25	A	C
ATOM	2013	OE1	GLU A	376	229.137	-77.887	98.974	1.00	95.99	A	O
ATOM	2014	OE2	GLU A	376	227.073	-78.001	99.732	1.00	98.67	A	O
ATOM	2015	C	GLU A	376	228.791	-72.562	100.461	1.00	61.59	A	C
ATOM	2016	O	GLU A	376	227.950	-72.145	101.275	1.00	63.73	A	O
ATOM	2017	N	VAL A	377	230.078	-72.229	100.505	1.00	60.90	A	N
ATOM	2018	CA	VAL A	377	230.605	-71.361	101.539	1.00	60.11	A	C
ATOM	2019	CB	VAL A	377	232.149	-71.606	101.780	1.00	57.13	A	C
ATOM	2020	CG1	VAL A	377	232.701	-70.591	102.782	1.00	52.18	A	C
ATOM	2021	CG2	VAL A	377	232.364	-72.987	102.341	1.00	51.22	A	C
ATOM	2022	C	VAL A	377	230.354	-69.928	101.140	1.00	59.92	A	C

ATOM	2023	O	VAL A 377	229.915	-69.114	101.952	1.00	69.33	A	O
ATOM	2024	N	LEU A 378	230.639	-69.625	99.884	1.00	54.97	A	N
ATOM	2025	CA	LEU A 378	230.466	-68.269	99.384	1.00	57.61	A	C
ATOM	2026	CB	LEU A 378	231.178	-68.090	98.026	1.00	55.37	A	C
ATOM	2027	CG	LEU A 378	232.564	-67.442	97.937	1.00	56.77	A	C
ATOM	2028	CD1	LEU A 378	232.986	-66.902	99.309	1.00	59.47	A	C
ATOM	2029	CD2	LEU A 378	233.517	-68.445	97.421	1.00	52.34	A	C
ATOM	2030	C	LEU A 378	228.995	-67.925	99.248	1.00	53.77	A	C
ATOM	2031	O	LEU A 378	228.626	-66.775	99.062	1.00	56.35	A	O
ATOM	2032	N	GLU A 379	228.144	-68.930	99.367	1.00	58.84	A	N
ATOM	2033	CA	GLU A 379	226.708	-68.714	99.236	1.00	63.13	A	C
ATOM	2034	CB	GLU A 379	226.101	-69.720	98.274	1.00	65.30	A	C
ATOM	2035	CG	GLU A 379	226.567	-69.569	96.831	1.00	70.53	A	C
ATOM	2036	CD	GLU A 379	225.831	-70.533	95.895	1.00	76.21	A	C
ATOM	2037	OE1	GLU A 379	225.546	-71.692	96.329	1.00	70.09	A	O
ATOM	2038	OE2	GLU A 379	225.547	-70.124	94.737	1.00	76.09	A	O
ATOM	2039	C	GLU A 379	225.991	-68.820	100.555	1.00	60.26	A	C
ATOM	2040	O	GLU A 379	224.963	-68.191	100.746	1.00	70.86	A	O
ATOM	2041	N	HIS A 380	226.535	-69.606	101.468	1.00	54.34	A	N
ATOM	2042	CA	HIS A 380	225.921	-69.775	102.771	1.00	54.61	A	C
ATOM	2043	CB	HIS A 380	226.975	-70.234	103.793	1.00	48.39	A	C
ATOM	2044	CG	HIS A 380	226.402	-70.617	105.121	1.00	45.24	A	C
ATOM	2045	CD2	HIS A 380	226.402	-71.793	105.781	1.00	42.14	A	C
ATOM	2046	ND1	HIS A 380	225.711	-69.731	105.921	1.00	51.46	A	N
ATOM	2047	CE1	HIS A 380	225.309	-70.349	107.018	1.00	50.88	A	C
ATOM	2048	NE2	HIS A 380	225.715	-71.604	106.957	1.00	47.24	A	N
ATOM	2049	C	HIS A 380	225.231	-68.502	103.261	1.00	55.95	A	C
ATOM	2050	O	HIS A 380	225.807	-67.409	103.206	1.00	60.83	A	O
ATOM	2051	N	PRO A 381	223.970	-68.630	103.727	1.00	55.60	A	N
ATOM	2052	CD	PRO A 381	223.229	-69.910	103.809	1.00	51.69	A	C
ATOM	2053	CA	PRO A 381	223.147	-67.522	104.248	1.00	53.48	A	C
ATOM	2054	CB	PRO A 381	221.997	-68.257	104.936	1.00	49.53	A	C
ATOM	2055	CG	PRO A 381	221.820	-69.442	104.035	1.00	49.24	A	C
ATOM	2056	C	PRO A 381	223.875	-66.545	105.212	1.00	56.98	A	C
ATOM	2057	O	PRO A 381	223.758	-65.320	105.074	1.00	59.03	A	O
ATOM	2058	N	TRP A 382	224.635	-67.091	106.164	1.00	54.77	A	N
ATOM	2059	CA	TRP A 382	225.340	-66.282	107.146	1.00	55.06	A	C
ATOM	2060	CB	TRP A 382	225.971	-67.165	108.240	1.00	54.64	A	C
ATOM	2061	CG	TRP A 382	226.691	-66.368	109.261	1.00	55.47	A	C
ATOM	2062	CD2	TRP A 382	228.111	-66.195	109.372	1.00	58.05	A	C
ATOM	2063	CE2	TRP A 382	228.344	-65.342	110.476	1.00	60.80	A	C
ATOM	2064	CE3	TRP A 382	229.210	-66.680	108.649	1.00	60.95	A	C
ATOM	2065	CD1	TRP A 382	226.137	-65.634	110.266	1.00	58.89	A	C
ATOM	2066	NE1	TRP A 382	227.123	-65.011	111.004	1.00	59.37	A	N
ATOM	2067	CZ2	TRP A 382	229.632	-64.965	110.871	1.00	64.01	A	C
ATOM	2068	CZ3	TRP A 382	230.491	-66.302	109.042	1.00	60.80	A	C
ATOM	2069	CH2	TRP A 382	230.688	-65.458	110.140	1.00	65.05	A	C
ATOM	2070	C	TRP A 382	226.397	-65.476	106.455	1.00	50.36	A	C
ATOM	2071	O	TRP A 382	226.579	-64.300	106.749	1.00	56.46	A	O
ATOM	2072	N	ILE A 383	227.094	-66.115	105.527	1.00	50.17	A	N
ATOM	2073	CA	ILE A 383	228.163	-65.454	104.757	1.00	51.21	A	C
ATOM	2074	CB	ILE A 383	228.914	-66.460	103.856	1.00	42.86	A	C
ATOM	2075	CG2	ILE A 383	229.642	-65.709	102.766	1.00	42.15	A	C
ATOM	2076	CG1	ILE A 383	229.846	-67.329	104.708	1.00	40.04	A	C
ATOM	2077	CD1	ILE A 383	230.943	-66.520	105.429	1.00	40.46	A	C
ATOM	2078	C	ILE A 383	227.659	-64.305	103.873	1.00	52.36	A	C
ATOM	2079	O	ILE A 383	228.247	-63.229	103.858	1.00	51.23	A	O
ATOM	2080	N	THR A 384	226.553	-64.533	103.166	1.00	54.23	A	N
ATOM	2081	CA	THR A 384	225.978	-63.535	102.275	1.00	58.09	A	C
ATOM	2082	CB	THR A 384	225.046	-64.197	101.265	1.00	57.25	A	C
ATOM	2083	OG1	THR A 384	224.320	-65.235	101.920	1.00	65.44	A	O
ATOM	2084	CG2	THR A 384	225.809	-64.804	100.133	1.00	59.94	A	C
ATOM	2085	C	THR A 384	225.221	-62.436	102.988	1.00	57.62	A	C
ATOM	2086	O	THR A 384	224.929	-61.395	102.420	1.00	61.64	A	O
ATOM	2087	N	ALA A 385	224.911	-62.655	104.249	1.00	60.34	A	N
ATOM	2088	CA	ALA A 385	224.195	-61.658	105.030	1.00	57.14	A	C
ATOM	2089	CB	ALA A 385	223.197	-62.376	105.944	1.00	61.04	A	C
ATOM	2090	C	ALA A 385	225.112	-60.735	105.867	1.00	57.68	A	C
ATOM	2091	O	ALA A 385	224.644	-59.765	106.467	1.00	56.76	A	O
ATOM	2092	N	ASN A 386	226.405	-61.038	105.919	1.00	57.22	A	N

ATOM	2093	CA	ASN A	386	227.312	-60.217	106.705	1.00	59.50	A	C
ATOM	2094	CB	ASN A	386	227.751	-60.993	107.939	1.00	58.18	A	C
ATOM	2095	CG	ASN A	386	226.583	-61.313	108.874	1.00	60.78	A	C
ATOM	2096	OD1	ASN A	386	226.026	-60.419	109.536	1.00	55.54	A	O
ATOM	2097	ND2	ASN A	386	226.201	-62.591	108.923	1.00	55.70	A	N
ATOM	2098	C	ASN A	386	228.540	-59.733	105.965	1.00	55.04	A	C
ATOM	2099	O	ASN A	386	229.128	-58.723	106.336	1.00	58.67	A	O
ATOM	2100	N	SER A	387	228.903	-60.444	104.906	1.00	58.95	A	N
ATOM	2101	CA	SER A	387	230.095	-60.110	104.132	1.00	63.83	A	C
ATOM	2102	CB	SER A	387	230.472	-61.278	103.220	1.00	55.03	A	C
ATOM	2103	OG	SER A	387	231.719	-61.061	102.599	1.00	57.80	A	O
ATOM	2104	C	SER A	387	229.865	-58.867	103.278	1.00	64.86	A	C
ATOM	2105	O	SER A	387	228.745	-58.607	102.826	1.00	68.20	A	O
ATOM	2106	N	SER A	388	230.916	-58.091	103.063	1.00	67.77	A	N
ATOM	2107	CA	SER A	388	230.786	-56.912	102.251	1.00	71.39	A	C
ATOM	2108	CB	SER A	388	231.430	-55.722	102.969	1.00	71.24	A	C
ATOM	2109	OG	SER A	388	232.815	-55.916	103.141	1.00	79.50	A	O
ATOM	2110	C	SER A	388	231.403	-57.150	100.872	1.00	71.24	A	C
ATOM	2111	O	SER A	388	231.024	-56.501	99.909	1.00	76.22	A	O
ATOM	2112	N	LYS A	389	232.336	-58.091	100.767	1.00	70.18	A	N
ATOM	2113	CA	LYS A	389	232.951	-58.347	99.475	1.00	67.46	A	C
ATOM	2114	CB	LYS A	389	234.459	-58.686	99.667	1.00	49.89	A	C
ATOM	2115	C	LYS A	389	232.216	-59.459	98.688	1.00	68.81	A	C
ATOM	2116	O	LYS A	389	231.441	-60.236	99.337	1.00	76.61	A	O
ATOM	2117	OXT	LYS A	389	232.453	-59.564	97.435	1.00	76.72	A	O
ATOM	2118	PB	ADP S	531	257.416	-68.553	107.649	1.00	34.84	S	P
ATOM	2119	O1B	ADP S	531	258.545	-67.776	107.191	1.00	50.81	S	O
ATOM	2120	O2B	ADP S	531	257.209	-69.880	106.879	1.00	48.35	S	O
ATOM	2121	O3B	ADP S	531	257.422	-68.756	109.226	1.00	53.79	S	O
ATOM	2122	PA	ADP S	531	256.077	-66.204	106.616	1.00	35.25	S	P
ATOM	2123	O1A	ADP S	531	256.842	-66.123	105.373	1.00	33.66	S	O
ATOM	2124	O2A	ADP S	531	254.551	-65.860	106.461	1.00	54.13	S	O
ATOM	2125	O3A	ADP S	531	256.162	-67.643	107.261	1.00	62.78	S	O
ATOM	2126	O5*	ADP S	531	256.892	-65.243	107.657	1.00	48.32	S	O
ATOM	2127	C5*	ADP S	531	256.442	-65.218	109.085	1.00	61.70	S	C
ATOM	2128	C4*	ADP S	531	255.856	-63.898	109.556	1.00	46.54	S	C
ATOM	2129	O4*	ADP S	531	256.542	-62.868	108.818	1.00	44.98	S	O
ATOM	2130	C3*	ADP S	531	254.372	-63.620	109.292	1.00	37.55	S	C
ATOM	2131	O3*	ADP S	531	253.658	-64.161	110.347	1.00	46.23	S	O
ATOM	2132	C2*	ADP S	531	254.337	-62.080	109.181	1.00	46.36	S	C
ATOM	2133	O2*	ADP S	531	254.148	-61.399	110.423	1.00	42.59	S	C
ATOM	2134	C1*	ADP S	531	255.710	-61.716	108.597	1.00	43.16	S	O
ATOM	2135	N9	ADP S	531	255.666	-61.436	107.162	1.00	48.23	S	C
ATOM	2136	C8	ADP S	531	255.946	-62.302	106.136	1.00	47.43	S	N
ATOM	2137	N7	ADP S	531	255.811	-61.734	104.897	1.00	42.83	S	N
ATOM	2138	C5	ADP S	531	255.418	-60.464	105.177	1.00	40.36	S	C
ATOM	2139	C6	ADP S	531	255.122	-59.337	104.279	1.00	44.75	S	C
ATOM	2140	N6	ADP S	531	255.151	-59.400	102.949	1.00	22.67	S	N
ATOM	2141	N1	ADP S	531	254.762	-58.153	104.964	1.00	40.38	S	N
ATOM	2142	C2	ADP S	531	254.725	-58.057	106.364	1.00	50.55	S	C
ATOM	2143	N3	ADP S	531	254.992	-59.070	107.188	1.00	51.07	S	N
ATOM	2144	C4	ADP S	531	255.351	-60.245	106.574	1.00	46.49	S	N
ATOM	2145	MG	MG2 X	1	254.502	-68.175	108.413	1.00	47.20	X	MG
ATOM	2146	MG	MG2 X	2	255.864	-71.389	106.282	1.00	52.14	X	MG
ATOM	2147	OH2	WAT W	1	264.531	-71.881	94.078	1.00	38.88	W	O
ATOM	2148	OH2	WAT W	2	242.403	-78.272	113.237	1.00	54.89	W	O
ATOM	2149	OH2	WAT W	3	232.705	-62.634	117.460	1.00	37.08	W	O
ATOM	2150	OH2	WAT W	4	251.977	-73.020	102.685	1.00	62.00	W	O
ATOM	2151	OH2	WAT W	5	275.163	-72.604	97.774	1.00	53.95	W	O
ATOM	2152	OH2	WAT W	6	232.526	-85.909	111.573	1.00	35.05	W	O
ATOM	2153	OH2	WAT W	7	259.170	-71.102	103.608	1.00	40.42	W	O
ATOM	2154	OH2	WAT W	8	249.904	-55.205	99.315	1.00	26.87	W	O
ATOM	2155	OH2	WAT W	9	229.701	-63.236	117.265	1.00	25.50	W	O

Fig. 6

Table B

ATOM	1	CB	SER A	123	174.078	193.853	20.627	1.00	33.78	A	C
ATOM	2	OG	SER A	123	173.358	193.080	21.584	1.00	34.86	A	O
ATOM	3	C	SER A	123	173.331	195.751	21.954	1.00	32.28	A	C
ATOM	4	O	SER A	123	174.318	196.187	22.580	1.00	32.38	A	O
ATOM	5	N	SER A	123	174.192	196.109	19.556	1.00	32.09	A	N
ATOM	6	CA	SER A	123	173.449	195.246	20.532	1.00	33.80	A	C
ATOM	7	N	LYS A	124	172.107	195.682	22.463	1.00	30.56	A	N
ATOM	8	CA	LYS A	124	171.860	196.059	23.849	1.00	31.07	A	C
ATOM	9	CB	LYS A	124	170.483	196.727	24.005	1.00	31.64	A	C
ATOM	10	CG	LYS A	124	170.231	197.847	23.021	1.00	33.77	A	C
ATOM	11	CD	LYS A	124	168.734	198.157	22.847	1.00	35.14	A	C
ATOM	12	CE	LYS A	124	168.571	198.989	21.582	1.00	38.52	A	C
ATOM	13	NZ	LYS A	124	167.170	199.182	21.123	1.00	40.74	A	N
ATOM	14	C	LYS A	124	171.929	194.785	24.714	1.00	30.29	A	C
ATOM	15	O	LYS A	124	171.724	194.845	25.913	1.00	30.99	A	O
ATOM	16	N	LYS A	125	172.256	193.646	24.102	1.00	30.71	A	N
ATOM	17	CA	LYS A	125	172.352	192.375	24.835	1.00	29.50	A	C
ATOM	18	CB	LYS A	125	171.942	191.210	23.951	1.00	32.42	A	C
ATOM	19	CG	LYS A	125	170.496	191.147	23.609	1.00	35.74	A	C
ATOM	20	CD	LYS A	125	170.221	189.915	22.777	1.00	38.96	A	C
ATOM	21	CE	LYS A	125	168.757	189.905	22.351	1.00	44.54	A	C
ATOM	22	NZ	LYS A	125	168.305	188.576	21.807	1.00	44.21	A	N
ATOM	23	C	LYS A	125	173.728	192.027	25.381	1.00	26.48	A	C
ATOM	24	O	LYS A	125	174.769	192.438	24.859	1.00	24.13	A	O
ATOM	25	N	ARG A	126	173.713	191.215	26.421	1.00	24.15	A	N
ATOM	26	CA	ARG A	126	174.952	190.756	27.020	1.00	22.33	A	C
ATOM	27	CB	ARG A	126	174.636	189.835	28.191	1.00	21.13	A	C
ATOM	28	CG	ARG A	126	175.841	189.331	28.897	1.00	18.73	A	C
ATOM	29	CD	ARG A	126	175.395	188.263	29.847	1.00	19.74	A	C
ATOM	30	NE	ARG A	126	176.552	187.628	30.420	1.00	16.73	A	N
ATOM	31	CZ	ARG A	126	176.503	186.741	31.394	1.00	17.59	A	C
ATOM	32	NH1	ARG A	126	175.331	186.391	31.902	1.00	16.71	A	N
ATOM	33	NH2	ARG A	126	177.633	186.214	31.854	1.00	18.45	A	N
ATOM	34	C	ARG A	126	175.752	189.995	25.943	1.00	22.44	A	C
ATOM	35	O	ARG A	126	175.252	189.077	25.296	1.00	20.29	A	O
ATOM	36	N	GLN A	127	176.997	190.406	25.763	1.00	21.10	A	N
ATOM	37	CA	GLN A	127	177.904	189.815	24.787	1.00	19.12	A	C
ATOM	38	CB	GLN A	127	178.707	190.934	24.102	1.00	18.99	A	C
ATOM	39	CG	GLN A	127	177.842	191.925	23.355	1.00	15.64	A	C
ATOM	40	CD	GLN A	127	177.154	191.297	22.162	1.00	17.04	A	C
ATOM	41	OE1	GLN A	127	177.748	191.151	21.093	1.00	21.45	A	O
ATOM	42	NE2	GLN A	127	175.902	190.912	22.339	1.00	20.66	A	N
ATOM	43	C	GLN A	127	178.861	188.861	25.496	1.00	17.70	A	C
ATOM	44	O	GLN A	127	179.049	188.941	26.715	1.00	13.46	A	O
ATOM	45	N	TRP A	128	179.460	187.956	24.735	1.00	16.62	A	N
ATOM	46	CA	TRP A	128	180.411	187.014	25.303	1.00	14.25	A	C
ATOM	47	CB	TRP A	128	180.890	186.029	24.237	1.00	13.22	A	C
ATOM	48	CG	TRP A	128	179.858	185.060	23.779	1.00	9.34	A	C
ATOM	49	CD2	TRP A	128	179.264	184.022	24.557	1.00	13.44	A	C
ATOM	50	CE2	TRP A	128	178.396	183.304	23.704	1.00	11.84	A	C
ATOM	51	CE3	TRP A	128	179.389	183.618	25.899	1.00	15.05	A	C
ATOM	52	CD1	TRP A	128	179.338	184.945	22.529	1.00	11.79	A	C
ATOM	53	NE1	TRP A	128	178.460	183.893	22.469	1.00	12.24	A	N
ATOM	54	CZ2	TRP A	128	177.648	182.204	24.146	1.00	10.99	A	C
ATOM	55	CZ3	TRP A	128	178.646	182.523	26.336	1.00	15.81	A	C
ATOM	56	CH2	TRP A	128	177.789	181.828	25.457	1.00	13.35	A	C
ATOM	57	C	TRP A	128	181.611	187.777	25.855	1.00	16.17	A	C
ATOM	58	O	TRP A	128	181.885	188.903	25.457	1.00	17.48	A	O
ATOM	59	N	ALA A	129	182.306	187.146	26.790	1.00	17.52	A	N
ATOM	60	CA	ALA A	129	183.501	187.695	27.415	1.00	17.26	A	C
ATOM	61	CB	ALA A	129	183.129	188.595	28.576	1.00	8.15	A	C
ATOM	62	C	ALA A	129	184.303	186.478	27.906	1.00	17.06	A	C
ATOM	63	O	ALA A	129	183.733	185.426	28.198	1.00	17.77	A	O

ATOM	64	N	LEU	A	130	185.618	186.620	27.979	1.00	16.79	A	N
ATOM	65	CA	LEU	A	130	186.479	185.540	28.425	1.00	19.53	A	C
ATOM	66	CB	LEU	A	130	187.943	186.006	28.392	1.00	19.86	A	C
ATOM	67	CG	LEU	A	130	189.050	184.967	28.619	1.00	22.85	A	C
ATOM	68	CD1	LEU	A	130	188.897	183.839	27.604	1.00	17.77	A	C
ATOM	69	CD2	LEU	A	130	190.429	185.631	28.492	1.00	16.04	A	C
ATOM	70	C	LEU	A	130	186.090	185.081	29.834	1.00	21.19	A	C
ATOM	71	O	LEU	A	130	186.080	183.885	30.121	1.00	24.25	A	O
ATOM	72	N	GLU	A	131	185.756	186.032	30.705	1.00	23.78	A	N
ATOM	73	CA	GLU	A	131	185.349	185.729	32.082	1.00	25.83	A	C
ATOM	74	CB	GLU	A	131	184.952	187.016	32.834	1.00	30.42	A	C
ATOM	75	CG	GLU	A	131	186.005	188.110	32.945	1.00	42.06	A	C
ATOM	76	CD	GLU	A	131	186.135	188.977	31.686	1.00	46.89	A	C
ATOM	77	OE1	GLU	A	131	185.319	188.822	30.747	1.00	51.89	A	O
ATOM	78	OE2	GLU	A	131	187.058	189.821	31.640	1.00	50.51	A	O
ATOM	79	C	GLU	A	131	184.146	184.751	32.145	1.00	25.30	A	C
ATOM	80	O	GLU	A	131	183.790	184.281	33.227	1.00	21.67	A	O
ATOM	81	N	ASP	A	132	183.503	184.473	31.008	1.00	22.51	A	N
ATOM	82	CA	ASP	A	132	182.364	183.565	30.989	1.00	22.54	A	C
ATOM	83	CB	ASP	A	132	181.458	183.825	29.782	1.00	24.79	A	C
ATOM	84	CG	ASP	A	132	180.631	185.120	29.908	1.00	28.99	A	C
ATOM	85	OD1	ASP	A	132	180.136	185.417	31.025	1.00	29.67	A	O
ATOM	86	OD2	ASP	A	132	180.450	185.824	28.873	1.00	26.45	A	O
ATOM	87	C	ASP	A	132	182.752	182.087	30.966	1.00	21.99	A	C
ATOM	88	O	ASP	A	132	181.925	181.226	31.267	1.00	22.12	A	O
ATOM	89	N	PHE	A	133	183.998	181.781	30.625	1.00	23.02	A	N
ATOM	90	CA	PHE	A	133	184.411	180.378	30.554	1.00	22.89	A	C
ATOM	91	CB	PHE	A	133	184.812	179.998	29.111	1.00	18.64	A	C
ATOM	92	CG	PHE	A	133	183.901	180.565	28.039	1.00	17.41	A	C
ATOM	93	CD1	PHE	A	133	184.042	181.884	27.616	1.00	15.80	A	C
ATOM	94	CD2	PHE	A	133	182.904	179.783	27.456	1.00	16.46	A	C
ATOM	95	CE1	PHE	A	133	183.215	182.414	26.637	1.00	14.66	A	C
ATOM	96	CE2	PHE	A	133	182.063	180.305	26.466	1.00	15.10	A	C
ATOM	97	CZ	PHE	A	133	182.224	181.626	26.060	1.00	18.42	A	C
ATOM	98	C	PHE	A	133	185.557	179.984	31.484	1.00	22.91	A	C
ATOM	99	O	PHE	A	133	186.466	180.766	31.755	1.00	24.66	A	O
ATOM	100	N	GLU	A	134	185.484	178.767	32.005	1.00	22.49	A	N
ATOM	101	CA	GLU	A	134	186.566	178.248	32.814	1.00	21.74	A	C
ATOM	102	CB	GLU	A	134	186.054	177.264	33.870	1.00	23.93	A	C
ATOM	103	CG	GLU	A	134	185.401	177.912	35.088	1.00	29.62	A	C
ATOM	104	CD	GLU	A	134	184.751	176.887	36.020	1.00	37.53	A	C
ATOM	105	OE1	GLU	A	134	185.460	175.983	36.533	1.00	38.84	A	O
ATOM	106	OE2	GLU	A	134	183.517	176.974	36.236	1.00	43.58	A	O
ATOM	107	C	GLU	A	134	187.313	177.528	31.695	1.00	21.49	A	C
ATOM	108	O	GLU	A	134	186.702	176.784	30.922	1.00	23.43	A	O
ATOM	109	N	ILE	A	135	188.608	177.794	31.564	1.00	19.74	A	N
ATOM	110	CA	ILE	A	135	189.425	177.197	30.524	1.00	19.08	A	C
ATOM	111	CB	ILE	A	135	190.554	178.149	30.072	1.00	22.58	A	C
ATOM	112	CG2	ILE	A	135	191.285	177.543	28.866	1.00	19.44	A	C
ATOM	113	CG1	ILE	A	135	189.990	179.541	29.762	1.00	20.52	A	C
ATOM	114	CD1	ILE	A	135	188.876	179.535	28.771	1.00	21.85	A	C
ATOM	115	C	ILE	A	135	190.099	175.941	31.044	1.00	20.74	A	C
ATOM	116	O	ILE	A	135	190.667	175.944	32.140	1.00	19.34	A	O
ATOM	117	N	GLY	A	136	190.058	174.876	30.245	1.00	19.98	A	N
ATOM	118	CA	GLY	A	136	190.688	173.629	30.637	1.00	19.38	A	C
ATOM	119	C	GLY	A	136	191.995	173.397	29.906	1.00	18.61	A	C
ATOM	120	O	GLY	A	136	192.742	174.324	29.668	1.00	20.61	A	O
ATOM	121	N	ARG	A	137	192.267	172.156	29.533	1.00	22.50	A	N
ATOM	122	CA	ARG	A	137	193.500	171.827	28.833	1.00	22.75	A	C
ATOM	123	CB	ARG	A	137	193.771	170.325	28.920	1.00	22.49	A	C
ATOM	124	CG	ARG	A	137	192.820	169.474	28.047	1.00	20.82	A	C
ATOM	125	CD	ARG	A	137	193.107	168.016	28.252	1.00	15.70	A	C
ATOM	126	NE	ARG	A	137	192.212	167.104	27.554	1.00	14.70	A	N
ATOM	127	CZ	ARG	A	137	192.299	166.784	26.266	1.00	14.90	A	C
ATOM	128	NH1	ARG	A	137	193.237	167.305	25.493	1.00	13.75	A	N
ATOM	129	NH2	ARG	A	137	191.462	165.900	25.758	1.00	13.41	A	N
ATOM	130	C	ARG	A	137	193.396	172.183	27.357	1.00	23.53	A	C
ATOM	131	O	ARG	A	137	192.316	172.425	26.840	1.00	24.10	A	O
ATOM	132	N	PRO	A	138	194.542	172.250	26.671	1.00	22.98	A	N
ATOM	133	CD	PRO	A	138	195.850	172.477	27.313	1.00	19.97	A	C

ATOM	134	CA	PRO A	138	194.613	172.552	25.237	1.00	22.67	A	C
ATOM	135	CB	PRO A	138	196.116	172.791	25.007	1.00	21.39	A	C
ATOM	136	CG	PRO A	138	196.570	173.354	26.295	1.00	19.67	A	C
ATOM	137	C	PRO A	138	194.135	171.275	24.497	1.00	23.48	A	C
ATOM	138	O	PRO A	138	194.528	170.147	24.876	1.00	21.67	A	O
ATOM	139	N	LEU A	139	193.297	171.435	23.471	1.00	19.70	A	N
ATOM	140	CA	LEU A	139	192.809	170.281	22.716	1.00	19.33	A	C
ATOM	141	CB	LEU A	139	191.340	170.454	22.318	1.00	19.32	A	C
ATOM	142	CG	LEU A	139	190.349	170.509	23.473	1.00	18.46	A	C
ATOM	143	CD1	LEU A	139	188.966	170.866	22.964	1.00	16.26	A	C
ATOM	144	CD2	LEU A	139	190.342	169.178	24.163	1.00	15.61	A	C
ATOM	145	C	LEU A	139	193.636	170.125	21.454	1.00	18.97	A	C
ATOM	146	O	LEU A	139	193.714	169.045	20.883	1.00	20.68	A	O
ATOM	147	N	GLY A	140	194.256	171.215	21.026	1.00	19.57	A	N
ATOM	148	CA	GLY A	140	195.056	171.181	19.825	1.00	16.45	A	C
ATOM	149	C	GLY A	140	195.821	172.461	19.630	1.00	18.41	A	C
ATOM	150	O	GLY A	140	195.560	173.469	20.280	1.00	17.66	A	O
ATOM	151	N	LYS A	141	196.778	172.413	18.713	1.00	23.54	A	N
ATOM	152	CA	LYS A	141	197.635	173.547	18.399	1.00	25.64	A	C
ATOM	153	CB	LYS A	141	199.103	173.104	18.473	1.00	29.50	A	C
ATOM	154	CG	LYS A	141	200.101	174.192	18.080	1.00	37.58	A	C
ATOM	155	CD	LYS A	141	201.550	173.744	18.187	1.00	42.29	A	C
ATOM	156	CE	LYS A	141	202.483	174.918	17.891	1.00	46.12	A	C
ATOM	157	NZ	LYS A	141	203.914	174.481	17.890	1.00	49.84	A	N
ATOM	158	C	LYS A	141	197.313	174.071	16.995	1.00	26.94	A	C
ATOM	159	O	LYS A	141	197.578	173.409	15.986	1.00	26.47	A	O
ATOM	160	N	GLY A	142	196.724	175.256	16.938	1.00	26.51	A	N
ATOM	161	CA	GLY A	142	196.392	175.839	15.656	1.00	26.65	A	C
ATOM	162	C	GLY A	142	197.515	176.753	15.234	1.00	26.71	A	C
ATOM	163	O	GLY A	142	198.384	177.086	16.052	1.00	26.93	A	O
ATOM	164	N	LYS A	143	197.501	177.158	13.969	1.00	24.67	A	N
ATOM	165	CA	LYS A	143	198.529	178.037	13.452	1.00	22.25	A	C
ATOM	166	CB	LYS A	143	198.362	178.220	11.925	1.00	25.89	A	C
ATOM	167	CG	LYS A	143	199.535	178.982	11.307	1.00	30.09	A	C
ATOM	168	CD	LYS A	143	199.516	179.060	9.792	1.00	35.88	A	C
ATOM	169	CE	LYS A	143	200.619	180.037	9.330	1.00	41.66	A	C
ATOM	170	NZ	LYS A	143	200.871	180.206	7.857	1.00	42.97	A	N
ATOM	171	C	LYS A	143	198.554	179.404	14.160	1.00	22.22	A	C
ATOM	172	O	LYS A	143	199.641	179.921	14.425	1.00	22.44	A	O
ATOM	173	N	PHE A	144	197.394	179.986	14.477	1.00	20.35	A	N
ATOM	174	CA	PHE A	144	197.370	181.311	15.130	1.00	21.42	A	C
ATOM	175	CB	PHE A	144	196.429	182.258	14.362	1.00	17.68	A	C
ATOM	176	CG	PHE A	144	196.798	182.429	12.896	1.00	22.16	A	C
ATOM	177	CD1	PHE A	144	196.541	181.421	11.959	1.00	20.33	A	C
ATOM	178	CD2	PHE A	144	197.460	183.574	12.464	1.00	23.47	A	C
ATOM	179	CE1	PHE A	144	196.944	181.564	10.624	1.00	20.91	A	C
ATOM	180	CE2	PHE A	144	197.864	183.716	11.128	1.00	21.10	A	C
ATOM	181	CZ	PHE A	144	197.606	182.708	10.213	1.00	18.55	A	C
ATOM	182	C	PHE A	144	197.001	181.263	16.626	1.00	20.47	A	C
ATOM	183	O	PHE A	144	196.668	182.283	17.246	1.00	20.98	A	O
ATOM	184	N	GLY A	145	197.094	180.072	17.208	1.00	18.58	A	N
ATOM	185	CA	GLY A	145	196.786	179.915	18.616	1.00	19.23	A	C
ATOM	186	C	GLY A	145	196.229	178.538	18.922	1.00	20.99	A	C
ATOM	187	O	GLY A	145	195.911	177.756	18.016	1.00	21.28	A	O
ATOM	188	N	ASN A	146	196.100	178.233	20.204	1.00	20.66	A	N
ATOM	189	CA	ASN A	146	195.574	176.938	20.598	1.00	21.26	A	C
ATOM	190	CB	ASN A	146	196.140	176.544	21.964	1.00	24.59	A	C
ATOM	191	CG	ASN A	146	197.638	176.352	21.939	1.00	27.16	A	C
ATOM	192	OD1	ASN A	146	198.205	175.853	20.956	1.00	32.36	A	O
ATOM	193	ND2	ASN A	146	198.292	176.737	23.015	1.00	27.51	A	N
ATOM	194	C	ASN A	146	194.056	176.878	20.683	1.00	20.53	A	C
ATOM	195	O	ASN A	146	193.370	177.902	20.676	1.00	20.90	A	O
ATOM	196	N	VAL A	147	193.540	175.658	20.740	1.00	18.03	A	N
ATOM	197	CA	VAL A	147	192.121	175.430	20.922	1.00	14.64	A	C
ATOM	198	CB	VAL A	147	191.528	174.515	19.799	1.00	13.96	A	C
ATOM	199	CG1	VAL A	147	190.053	174.217	20.092	1.00	10.05	A	C
ATOM	200	CG2	VAL A	147	191.669	175.213	18.439	1.00	8.41	A	C
ATOM	201	C	VAL A	147	192.142	174.746	22.301	1.00	16.21	A	C
ATOM	202	O	VAL A	147	192.897	173.783	22.523	1.00	14.13	A	O
ATOM	203	N	TYR A	148	191.375	175.299	23.242	1.00	14.89	A	N

ATOM	204	CA	TYR A 148	191.315	174.786	24.614	1.00	14.47	A	C
ATOM	205	CB	TYR A 148	191.593	175.891	25.642	1.00	12.68	A	C
ATOM	206	CG	TYR A 148	192.910	176.619	25.491	1.00	18.66	A	C
ATOM	207	CD1	TYR A 148	193.031	177.690	24.605	1.00	16.46	A	C
ATOM	208	CE1	TYR A 148	194.243	178.347	24.434	1.00	18.77	A	C
ATOM	209	CD2	TYR A 148	194.047	176.222	26.217	1.00	15.67	A	C
ATOM	210	CE2	TYR A 148	195.269	176.880	26.050	1.00	20.14	A	C
ATOM	211	CZ	TYR A 148	195.355	177.938	25.153	1.00	18.86	A	C
ATOM	212	OH	TYR A 148	196.555	178.569	24.934	1.00	23.63	A	O
ATOM	213	C	TYR A 148	189.943	174.234	24.936	1.00	13.13	A	C
ATOM	214	O	TYR A 148	188.942	174.674	24.386	1.00	14.07	A	O
ATOM	215	N	LEU A 149	189.887	173.265	25.831	1.00	11.62	A	N
ATOM	216	CA	LEU A 149	188.600	172.753	26.223	1.00	11.86	A	C
ATOM	217	CB	LEU A 149	188.787	171.466	27.003	1.00	10.50	A	C
ATOM	218	CG	LEU A 149	187.547	170.675	27.388	1.00	12.61	A	C
ATOM	219	CD1	LEU A 149	186.695	170.364	26.182	1.00	11.20	A	C
ATOM	220	CD2	LEU A 149	188.001	169.410	28.051	1.00	11.24	A	C
ATOM	221	C	LEU A 149	188.071	173.911	27.101	1.00	13.55	A	C
ATOM	222	O	LEU A 149	188.857	174.728	27.565	1.00	12.48	A	O
ATOM	223	N	ALA A 150	186.763	174.008	27.316	1.00	14.24	A	N
ATOM	224	CA	ALA A 150	186.227	175.102	28.120	1.00	15.20	A	C
ATOM	225	CB	ALA A 150	186.230	176.406	27.318	1.00	15.60	A	C
ATOM	226	C	ALA A 150	184.817	174.800	28.612	1.00	17.25	A	C
ATOM	227	O	ALA A 150	184.122	173.929	28.083	1.00	18.30	A	O
ATOM	228	N	ARG A 151	184.398	175.532	29.629	1.00	17.29	A	N
ATOM	229	CA	ARG A 151	183.091	175.334	30.215	1.00	19.70	A	C
ATOM	230	CB	ARG A 151	183.245	174.479	31.492	1.00	20.02	A	C
ATOM	231	CG	ARG A 151	181.977	174.102	32.258	1.00	26.58	A	C
ATOM	232	CD	ARG A 151	182.321	173.557	33.686	1.00	30.64	A	C
ATOM	233	NE	ARG A 151	183.235	172.405	33.673	1.00	32.15	A	N
ATOM	234	CZ	ARG A 151	182.900	171.151	33.348	1.00	33.18	A	C
ATOM	235	NH1	ARG A 151	181.644	170.851	33.004	1.00	33.09	A	N
ATOM	236	NH2	ARG A 151	183.831	170.190	33.362	1.00	31.48	A	N
ATOM	237	C	ARG A 151	182.516	176.707	30.518	1.00	20.61	A	C
ATOM	238	O	ARG A 151	183.158	177.560	31.163	1.00	19.62	A	O
ATOM	239	N	GLU A 152	181.315	176.939	30.006	1.00	21.84	A	N
ATOM	240	CA	GLU A 152	180.633	178.196	30.264	1.00	21.85	A	C
ATOM	241	CB	GLU A 152	179.401	178.298	29.377	1.00	26.06	A	C
ATOM	242	CG	GLU A 152	178.766	179.690	29.289	1.00	28.31	A	C
ATOM	243	CD	GLU A 152	177.996	180.078	30.543	1.00	32.60	A	C
ATOM	244	OE1	GLU A 152	178.576	180.804	31.391	1.00	33.50	A	O
ATOM	245	OE2	GLU A 152	176.821	179.650	30.679	1.00	29.24	A	O
ATOM	246	C	GLU A 152	180.252	178.091	31.742	1.00	21.10	A	C
ATOM	247	O	GLU A 152	179.661	177.102	32.172	1.00	19.62	A	O
ATOM	248	N	LYS A 153	180.613	179.114	32.504	1.00	21.06	A	N
ATOM	249	CA	LYS A 153	180.366	179.156	33.933	1.00	20.90	A	C
ATOM	250	CB	LYS A 153	180.996	180.417	34.513	1.00	20.37	A	C
ATOM	251	CG	LYS A 153	182.501	180.458	34.440	1.00	22.17	A	C
ATOM	252	CD	LYS A 153	183.063	181.720	35.091	1.00	21.22	A	C
ATOM	253	CE	LYS A 153	184.568	181.658	35.002	1.00	22.77	A	C
ATOM	254	NZ	LYS A 153	185.178	182.877	35.572	1.00	24.11	A	N
ATOM	255	C	LYS A 153	178.927	179.048	34.421	1.00	21.26	A	C
ATOM	256	O	LYS A 153	178.649	178.362	35.390	1.00	25.58	A	O
ATOM	257	N	GLN A 154	177.982	179.704	33.786	1.00	23.03	A	N
ATOM	258	CA	GLN A 154	176.639	179.579	34.330	1.00	23.96	A	C
ATOM	259	CB	GLN A 154	175.744	180.686	33.800	1.00	23.79	A	C
ATOM	260	CG	GLN A 154	176.125	182.053	34.288	1.00	24.55	A	C
ATOM	261	CD	GLN A 154	175.243	183.133	33.709	1.00	24.55	A	C
ATOM	262	OE1	GLN A 154	175.674	184.283	33.617	1.00	23.87	A	O
ATOM	263	NE2	GLN A 154	173.998	182.779	33.309	1.00	22.50	A	N
ATOM	264	C	GLN A 154	175.951	178.229	34.086	1.00	24.10	A	C
ATOM	265	O	GLN A 154	175.345	177.675	34.996	1.00	25.34	A	O
ATOM	266	N	SER A 155	176.018	177.700	32.871	1.00	22.36	A	O
ATOM	267	CA	SER A 155	175.351	176.441	32.585	1.00	21.24	A	C
ATOM	268	CB	SER A 155	174.790	176.517	31.180	1.00	20.38	A	C
ATOM	269	OG	SER A 155	175.875	176.607	30.282	1.00	22.24	A	O
ATOM	270	C	SER A 155	176.234	175.182	32.691	1.00	23.66	A	C
ATOM	271	O	SER A 155	175.725	174.048	32.677	1.00	20.04	A	O
ATOM	272	N	LYS A 156	177.549	175.406	32.789	1.00	23.61	A	N
ATOM	273	CA	LYS A 156	178.572	174.358	32.849	1.00	24.47	A	C

ATOM	274	CB	LYS	A	156	178.350	173.467	34.065	1.00	25.24	A	C
ATOM	275	CG	LYS	A	156	178.523	174.254	35.368	1.00	32.64	A	C
ATOM	276	CD	LYS	A	156	178.309	173.358	36.552	1.00	35.73	A	C
ATOM	277	CE	LYS	A	156	178.506	174.079	37.870	1.00	41.50	A	C
ATOM	278	NZ	LYS	A	156	178.457	173.059	38.978	1.00	42.75	A	N
ATOM	279	C	LYS	A	156	178.634	173.543	31.548	1.00	22.03	A	C
ATOM	280	O	LYS	A	156	179.131	172.417	31.509	1.00	22.31	A	O
ATOM	281	N	PHE	A	157	178.152	174.152	30.472	1.00	20.94	A	N
ATOM	282	CA	PHE	A	157	178.180	173.530	29.162	1.00	19.88	A	C
ATOM	283	CB	PHE	A	157	177.370	174.367	28.174	1.00	21.87	A	C
ATOM	284	CG	PHE	A	157	177.209	173.735	26.840	1.00	22.62	A	C
ATOM	285	CD1	PHE	A	157	176.501	172.546	26.704	1.00	26.84	A	C
ATOM	286	CD2	PHE	A	157	177.745	174.336	25.707	1.00	24.18	A	C
ATOM	287	CE1	PHE	A	157	176.326	171.957	25.448	1.00	27.13	A	C
ATOM	288	CE2	PHE	A	157	177.576	173.763	24.446	1.00	24.84	A	C
ATOM	289	CZ	PHE	A	157	176.868	172.574	24.316	1.00	26.19	A	C
ATOM	290	C	PHE	A	157	179.645	173.447	28.708	1.00	20.86	A	C
ATOM	291	O	PHE	A	157	180.394	174.451	28.739	1.00	16.68	A	O
ATOM	292	N	ILE	A	158	180.056	172.243	28.316	1.00	18.62	A	N
ATOM	293	CA	ILE	A	158	181.412	171.997	27.862	1.00	17.65	A	C
ATOM	294	CB	ILE	A	158	181.818	170.521	28.156	1.00	21.22	A	C
ATOM	295	CG2	ILE	A	158	183.120	170.183	27.472	1.00	20.54	A	C
ATOM	296	CG1	ILE	A	158	181.998	170.339	29.675	1.00	25.44	A	C
ATOM	297	CD1	ILE	A	158	181.751	168.898	30.193	1.00	32.22	A	C
ATOM	298	C	ILE	A	158	181.502	172.306	26.363	1.00	19.32	A	C
ATOM	299	O	ILE	A	158	180.622	171.940	25.588	1.00	21.25	A	O
ATOM	300	N	LEU	A	159	182.544	173.021	25.958	1.00	19.68	A	N
ATOM	301	CA	LEU	A	159	182.729	173.365	24.552	1.00	18.03	A	C
ATOM	302	CB	LEU	A	159	181.915	174.625	24.214	1.00	18.70	A	C
ATOM	303	CG	LEU	A	159	181.855	175.726	25.275	1.00	18.81	A	C
ATOM	304	CD1	LEU	A	159	183.137	176.522	25.197	1.00	25.89	A	C
ATOM	305	CD2	LEU	A	159	180.667	176.644	25.065	1.00	15.33	A	C
ATOM	306	C	LEU	A	159	184.218	173.553	24.263	1.00	16.64	A	C
ATOM	307	O	LEU	A	159	185.054	173.211	25.099	1.00	10.64	A	O
ATOM	308	N	ALA	A	160	184.562	174.069	23.084	1.00	14.09	A	N
ATOM	309	CA	ALA	A	160	185.981	174.271	22.742	1.00	14.90	A	C
ATOM	310	CB	ALA	A	160	186.371	173.394	21.574	1.00	11.94	A	C
ATOM	311	C	ALA	A	160	186.230	175.736	22.420	1.00	15.35	A	C
ATOM	312	O	ALA	A	160	185.419	176.377	21.777	1.00	16.22	A	O
ATOM	313	N	LEU	A	161	187.348	176.277	22.876	1.00	17.51	A	N
ATOM	314	CA	LEU	A	161	187.656	177.685	22.636	1.00	17.81	A	C
ATOM	315	CB	LEU	A	161	187.959	178.379	23.958	1.00	19.09	A	C
ATOM	316	CG	LEU	A	161	187.661	179.882	24.003	1.00	24.28	A	C
ATOM	317	CD1	LEU	A	161	186.190	180.085	23.715	1.00	19.74	A	C
ATOM	318	CD2	LEU	A	161	188.020	180.482	25.396	1.00	26.64	A	C
ATOM	319	C	LEU	A	161	188.857	177.829	21.697	1.00	18.94	A	C
ATOM	320	O	LEU	A	161	189.984	177.506	22.070	1.00	15.15	A	O
ATOM	321	N	LYS	A	162	188.605	178.302	20.477	1.00	15.44	A	N
ATOM	322	CA	LYS	A	162	189.671	178.489	19.506	1.00	16.27	A	C
ATOM	323	CB	LYS	A	162	189.142	178.254	18.093	1.00	15.06	A	C
ATOM	324	CG	LYS	A	162	190.184	178.338	17.036	1.00	13.12	A	C
ATOM	325	CD	LYS	A	162	189.615	177.968	15.682	1.00	15.23	A	C
ATOM	326	CE	LYS	A	162	190.694	178.025	14.590	1.00	15.94	A	C
ATOM	327	NZ	LYS	A	162	190.118	177.625	13.262	1.00	21.75	A	N
ATOM	328	C	LYS	A	162	190.220	179.909	19.626	1.00	16.04	A	C
ATOM	329	O	LYS	A	162	189.486	180.863	19.427	1.00	17.16	A	O
ATOM	330	N	VAL	A	163	191.501	180.044	19.955	1.00	15.21	A	N
ATOM	331	CA	VAL	A	163	192.110	181.357	20.107	1.00	16.50	A	C
ATOM	332	CB	VAL	A	163	193.047	181.400	21.336	1.00	17.79	A	C
ATOM	333	CG1	VAL	A	163	193.563	182.816	21.546	1.00	15.20	A	C
ATOM	334	CG2	VAL	A	163	192.316	180.897	22.578	1.00	14.92	A	C
ATOM	335	C	VAL	A	163	192.938	181.758	18.888	1.00	17.82	A	C
ATOM	336	O	VAL	A	163	193.616	180.933	18.287	1.00	20.09	A	O
ATOM	337	N	LEU	A	164	192.888	183.028	18.522	1.00	18.13	A	N
ATOM	338	CA	LEU	A	164	193.670	183.509	17.387	1.00	15.87	A	C
ATOM	339	CB	LEU	A	164	192.747	183.802	16.203	1.00	18.86	A	C
ATOM	340	CG	LEU	A	164	191.903	182.603	15.752	1.00	20.75	A	C
ATOM	341	CD1	LEU	A	164	190.429	182.980	15.575	1.00	23.26	A	C
ATOM	342	CD2	LEU	A	164	192.481	182.084	14.477	1.00	19.09	A	C
ATOM	343	C	LEU	A	164	194.352	184.789	17.835	1.00	16.04	A	C

ATOM	344	O	LEU	A	164	193.687	185.709	18.295	1.00	13.41	A	O
ATOM	345	N	PHE	A	165	195.670	184.858	17.738	1.00	15.52	A	N
ATOM	346	CA	PHE	A	165	196.340	186.082	18.141	1.00	18.33	A	C
ATOM	347	CB	PHE	A	165	197.804	185.823	18.497	1.00	19.71	A	C
ATOM	348	CG	PHE	A	165	197.987	185.214	19.850	1.00	26.23	A	C
ATOM	349	CD1	PHE	A	165	197.826	183.840	20.033	1.00	27.06	A	C
ATOM	350	CD2	PHE	A	165	198.222	186.025	20.961	1.00	28.47	A	C
ATOM	351	CE1	PHE	A	165	197.899	183.281	21.298	1.00	32.07	A	C
ATOM	352	CE2	PHE	A	165	198.299	185.479	22.239	1.00	31.56	A	C
ATOM	353	CZ	PHE	A	165	198.133	184.104	22.411	1.00	35.02	A	C
ATOM	354	C	PHE	A	165	196.228	187.062	16.999	1.00	19.49	A	C
ATOM	355	O	PHE	A	165	196.610	186.742	15.857	1.00	21.60	A	O
ATOM	356	N	LYS	A	166	195.674	188.242	17.277	1.00	18.17	A	N
ATOM	357	CA	LYS	A	166	195.458	189.299	16.282	1.00	17.63	A	C
ATOM	358	CB	LYS	A	166	194.786	190.520	16.931	1.00	16.68	A	C
ATOM	359	CG	LYS	A	166	193.319	190.346	17.376	1.00	15.54	A	C
ATOM	360	CD	LYS	A	166	192.703	191.672	17.826	1.00	10.39	A	C
ATOM	361	CE	LYS	A	166	191.259	191.452	18.272	1.00	12.43	A	C
ATOM	362	NZ	LYS	A	166	190.505	192.644	18.792	1.00	7.46	A	N
ATOM	363	C	LYS	A	166	196.696	189.792	15.536	1.00	19.44	A	C
ATOM	364	O	LYS	A	166	196.615	190.103	14.343	1.00	19.53	A	O
ATOM	365	N	ALA	A	167	197.828	189.885	16.237	1.00	19.10	A	N
ATOM	366	CA	ALA	A	167	199.068	190.369	15.628	1.00	18.82	A	C
ATOM	367	CB	ALA	A	167	200.140	190.591	16.710	1.00	11.48	A	C
ATOM	368	C	ALA	A	167	199.551	189.377	14.571	1.00	18.71	A	C
ATOM	369	O	ALA	A	167	200.085	189.762	13.534	1.00	19.61	A	O
ATOM	370	N	GLN	A	168	199.351	188.092	14.840	1.00	18.71	A	N
ATOM	371	CA	GLN	A	168	199.734	187.039	13.907	1.00	18.86	A	C
ATOM	372	CB	GLN	A	168	199.584	185.666	14.561	1.00	21.65	A	C
ATOM	373	CG	GLN	A	168	200.584	184.664	14.014	1.00	25.64	A	C
ATOM	374	CD	GLN	A	168	200.544	183.310	14.690	1.00	29.19	A	C
ATOM	375	OE1	GLN	A	168	200.269	183.208	15.900	1.00	27.17	A	O
ATOM	376	NE2	GLN	A	168	200.846	182.249	13.920	1.00	28.74	A	N
ATOM	377	C	GLN	A	168	198.824	187.137	12.688	1.00	17.82	A	C
ATOM	378	O	GLN	A	168	199.273	187.079	11.560	1.00	20.56	A	O
ATOM	379	N	LEU	A	169	197.530	187.289	12.931	1.00	19.46	A	N
ATOM	380	CA	LEU	A	169	196.553	187.404	11.848	1.00	19.86	A	C
ATOM	381	CB	LEU	A	169	195.146	187.572	12.393	1.00	20.65	A	C
ATOM	382	CG	LEU	A	169	194.514	186.370	13.052	1.00	24.58	A	C
ATOM	383	CD1	LEU	A	169	193.168	186.837	13.566	1.00	23.53	A	C
ATOM	384	CD2	LEU	A	169	194.396	185.189	12.069	1.00	20.67	A	C
ATOM	385	C	LEU	A	169	196.802	188.604	10.961	1.00	21.12	A	C
ATOM	386	O	LEU	A	169	196.533	188.564	9.761	1.00	17.39	A	O
ATOM	387	N	GLU	A	170	197.261	189.697	11.564	1.00	22.51	A	N
ATOM	388	CA	GLU	A	170	197.520	190.915	10.807	1.00	23.02	A	C
ATOM	389	CB	GLU	A	170	197.637	192.102	11.769	1.00	22.68	A	C
ATOM	390	CG	GLU	A	170	196.267	192.607	12.232	1.00	27.99	A	C
ATOM	391	CD	GLU	A	170	196.294	193.330	13.579	1.00	31.84	A	C
ATOM	392	OE1	GLU	A	170	197.334	193.955	13.920	1.00	33.33	A	O
ATOM	393	OE2	GLU	A	170	195.256	193.278	14.285	1.00	31.22	A	O
ATOM	394	C	GLU	A	170	198.762	190.753	9.949	1.00	21.03	A	C
ATOM	395	O	GLU	A	170	198.739	191.068	8.757	1.00	23.09	A	O
ATOM	396	N	LYS	A	171	199.826	190.220	10.535	1.00	17.25	A	N
ATOM	397	CA	LYS	A	171	201.059	190.014	9.790	1.00	19.63	A	C
ATOM	398	CB	LYS	A	171	202.139	189.442	10.706	1.00	21.18	A	C
ATOM	399	CG	LYS	A	171	203.525	189.395	10.073	1.00	25.15	A	C
ATOM	400	CD	LYS	A	171	204.574	188.888	11.054	1.00	28.24	A	C
ATOM	401	CE	LYS	A	171	205.952	188.807	10.395	1.00	32.60	A	C
ATOM	402	NZ	LYS	A	171	207.003	188.297	11.331	1.00	33.23	A	N
ATOM	403	C	LYS	A	171	200.838	189.074	8.609	1.00	19.42	A	C
ATOM	404	O	LYS	A	171	201.451	189.235	7.551	1.00	21.92	A	O
ATOM	405	N	ALA	A	172	199.957	188.095	8.782	1.00	17.92	A	N
ATOM	406	CA	ALA	A	172	199.666	187.126	7.720	1.00	18.61	A	C
ATOM	407	CB	ALA	A	172	199.168	185.826	8.341	1.00	13.39	A	C
ATOM	408	C	ALA	A	172	198.666	187.627	6.679	1.00	16.48	A	C
ATOM	409	O	ALA	A	172	198.600	187.082	5.577	1.00	18.45	A	O
ATOM	410	N	GLY	A	173	197.890	188.651	7.053	1.00	16.48	A	N
ATOM	411	CA	GLY	A	173	196.876	189.241	6.178	1.00	17.37	A	C
ATOM	412	C	GLY	A	173	195.719	188.297	5.904	1.00	18.48	A	C
ATOM	413	O	GLY	A	173	195.158	188.264	4.789	1.00	17.50	A	O

ATOM	414	N	VAL A	174	195.344	187.536	6.921	1.00	16.39	A	N
ATOM	415	CA	VAL A	174	194.274	186.573	6.770	1.00	18.80	A	C
ATOM	416	CB	VAL A	174	194.778	185.171	7.226	1.00	17.75	A	C
ATOM	417	CG1	VAL A	174	195.976	184.770	6.371	1.00	17.03	A	C
ATOM	418	CG2	VAL A	174	195.166	185.207	8.684	1.00	12.69	A	C
ATOM	419	C	VAL A	174	193.015	186.982	7.535	1.00	19.69	A	C
ATOM	420	O	VAL A	174	192.152	186.152	7.828	1.00	22.14	A	O
ATOM	421	N	GLU A	175	192.900	188.282	7.801	1.00	24.29	A	N
ATOM	422	CA	GLU A	175	191.751	188.834	8.521	1.00	25.76	A	C
ATOM	423	CB	GLU A	175	191.902	190.351	8.799	1.00	29.22	A	C
ATOM	424	CG	GLU A	175	193.333	190.938	8.903	1.00	38.41	A	C
ATOM	425	CD	GLU A	175	193.998	191.112	7.548	1.00	39.97	A	C
ATOM	426	OE1	GLU A	175	193.310	190.986	6.511	1.00	47.49	A	O
ATOM	427	OE2	GLU A	175	195.206	191.382	7.507	1.00	46.22	A	O
ATOM	428	C	GLU A	175	190.452	188.611	7.752	1.00	25.95	A	C
ATOM	429	O	GLU A	175	189.423	188.313	8.337	1.00	25.42	A	O
ATOM	430	N	HIS A	176	190.483	188.768	6.438	1.00	26.45	A	N
ATOM	431	CA	HIS A	176	189.254	188.539	5.708	1.00	24.68	A	C
ATOM	432	CB	HIS A	176	189.316	189.074	4.278	1.00	23.09	A	C
ATOM	433	CG	HIS A	176	187.963	189.014	3.596	1.00	32.41	A	C
ATOM	434	CD2	HIS A	176	187.570	188.363	2.477	1.00	34.18	A	C
ATOM	435	ND1	HIS A	176	186.845	189.576	4.148	1.00	32.75	A	N
ATOM	436	CE1	HIS A	176	185.796	189.266	3.406	1.00	33.74	A	C
ATOM	437	NE2	HIS A	176	186.207	188.529	2.386	1.00	34.72	A	N
ATOM	438	C	HIS A	176	188.848	187.062	5.703	1.00	23.32	A	C
ATOM	439	O	HIS A	176	187.661	186.755	5.693	1.00	22.64	A	O
ATOM	440	N	GLN A	177	189.803	186.137	5.744	1.00	21.78	A	N
ATOM	441	CA	GLN A	177	189.432	184.721	5.774	1.00	19.85	A	C
ATOM	442	CB	GLN A	177	190.628	183.818	5.421	1.00	21.23	A	C
ATOM	443	CG	GLN A	177	191.173	183.994	3.977	1.00	23.08	A	C
ATOM	444	CD	GLN A	177	192.113	185.179	3.856	1.00	26.14	A	C
ATOM	445	OE1	GLN A	177	191.901	186.204	4.512	1.00	27.02	A	O
ATOM	446	NE2	GLN A	177	193.161	185.056	3.012	1.00	25.09	A	N
ATOM	447	C	GLN A	177	188.859	184.317	7.129	1.00	18.66	A	C
ATOM	448	O	GLN A	177	188.057	183.390	7.195	1.00	18.16	A	O
ATOM	449	N	LEU A	178	189.267	185.001	8.202	1.00	17.80	A	N
ATOM	450	CA	LEU A	178	188.742	184.695	9.532	1.00	17.25	A	C
ATOM	451	CB	LEU A	178	189.473	185.495	10.616	1.00	14.48	A	C
ATOM	452	CG	LEU A	178	188.948	185.297	12.041	1.00	14.78	A	C
ATOM	453	CD1	LEU A	178	188.822	183.792	12.391	1.00	13.65	A	C
ATOM	454	CD2	LEU A	178	189.904	185.964	13.002	1.00	15.52	A	C
ATOM	455	C	LEU A	178	187.257	185.050	9.569	1.00	18.82	A	C
ATOM	456	O	LEU A	178	186.436	184.346	10.148	1.00	18.56	A	O
ATOM	457	N	ARG A	179	186.929	186.171	8.950	1.00	17.14	A	N
ATOM	458	CA	ARG A	179	185.570	186.637	8.893	1.00	20.36	A	C
ATOM	459	CB	ARG A	179	185.547	188.004	8.238	1.00	24.60	A	C
ATOM	460	CG	ARG A	179	184.191	188.581	8.190	1.00	30.51	A	C
ATOM	461	CD	ARG A	179	184.079	189.355	6.937	1.00	34.92	A	C
ATOM	462	NE	ARG A	179	183.602	190.700	7.192	1.00	44.42	A	N
ATOM	463	CZ	ARG A	179	184.338	191.679	7.721	1.00	50.64	A	C
ATOM	464	NH1	ARG A	179	185.609	191.475	8.060	1.00	53.62	A	N
ATOM	465	NH2	ARG A	179	183.800	192.881	7.910	1.00	54.27	A	N
ATOM	466	C	ARG A	179	184.677	185.663	8.112	1.00	20.68	A	C
ATOM	467	O	ARG A	179	183.516	185.428	8.490	1.00	20.49	A	O
ATOM	468	N	ARG A	180	185.211	185.102	7.027	1.00	16.87	A	N
ATOM	469	CA	ARG A	180	184.457	184.139	6.240	1.00	16.27	A	C
ATOM	470	CB	ARG A	180	185.145	183.851	4.880	1.00	15.64	A	C
ATOM	471	CG	ARG A	180	185.036	184.997	3.869	1.00	19.03	A	C
ATOM	472	CD	ARG A	180	185.243	184.593	2.394	1.00	19.17	A	C
ATOM	473	NE	ARG A	180	186.536	183.973	2.158	1.00	22.25	A	N
ATOM	474	CZ	ARG A	180	187.223	184.003	1.011	1.00	22.42	A	C
ATOM	475	NH1	ARG A	180	186.778	184.633	-0.067	1.00	16.67	A	N
ATOM	476	NH2	ARG A	180	188.390	183.384	0.949	1.00	23.03	A	N
ATOM	477	C	ARG A	180	184.277	182.837	7.037	1.00	16.14	A	C
ATOM	478	O	ARG A	180	183.225	182.207	6.950	1.00	17.78	A	O
ATOM	479	N	GLU A	181	185.294	182.439	7.812	1.00	15.13	A	N
ATOM	480	CA	GLU A	181	185.211	181.222	8.627	1.00	15.82	A	C
ATOM	481	CB	GLU A	181	186.512	180.969	9.431	1.00	17.60	A	C
ATOM	482	CG	GLU A	181	186.517	179.610	10.164	1.00	22.11	A	C
ATOM	483	CD	GLU A	181	187.779	179.293	11.023	1.00	29.50	A	C

ATOM	484	OE1	GLU	A	181	188.877	179.898	10.811	1.00	23.91	A	O
ATOM	485	OE2	GLU	A	181	187.654	178.393	11.914	1.00	30.52	A	O
ATOM	486	C	GLU	A	181	184.059	181.374	9.615	1.00	17.24	A	C
ATOM	487	O	GLU	A	181	183.169	180.514	9.711	1.00	17.81	A	O
ATOM	488	N	VAL	A	182	184.075	182.486	10.336	1.00	13.24	A	N
ATOM	489	CA	VAL	A	182	183.056	182.746	11.323	1.00	16.10	A	C
ATOM	490	CB	VAL	A	182	183.417	183.989	12.155	1.00	17.20	A	C
ATOM	491	CG1	VAL	A	182	182.271	184.362	13.059	1.00	11.33	A	C
ATOM	492	CG2	VAL	A	182	184.675	183.709	12.948	1.00	15.06	A	C
ATOM	493	C	VAL	A	182	181.650	182.907	10.756	1.00	16.14	A	C
ATOM	494	O	VAL	A	182	180.718	182.216	11.186	1.00	14.19	A	O
ATOM	495	N	GLU	A	183	181.491	183.805	9.788	1.00	16.25	A	N
ATOM	496	CA	GLU	A	183	180.162	184.021	9.212	1.00	17.30	A	C
ATOM	497	CB	GLU	A	183	180.190	185.187	8.214	1.00	16.51	A	C
ATOM	498	CG	GLU	A	183	180.630	186.499	8.842	1.00	21.63	A	C
ATOM	499	CD	GLU	A	183	180.566	187.674	7.874	1.00	24.47	A	C
ATOM	500	OE1	GLU	A	183	180.841	187.477	6.673	1.00	27.21	A	O
ATOM	501	OE2	GLU	A	183	180.255	188.801	8.315	1.00	29.43	A	O
ATOM	502	C	GLU	A	183	179.581	182.764	8.555	1.00	14.99	A	C
ATOM	503	O	GLU	A	183	178.405	182.460	8.753	1.00	16.33	A	O
ATOM	504	N	ILE	A	184	180.396	182.019	7.810	1.00	12.00	A	N
ATOM	505	CA	ILE	A	184	179.908	180.608	7.159	1.00	10.45	A	C
ATOM	506	CB	ILE	A	184	180.904	180.302	6.094	1.00	9.02	A	C
ATOM	507	CG2	ILE	A	184	180.595	178.854	5.712	1.00	2.93	A	C
ATOM	508	CG1	ILE	A	184	180.862	181.248	4.893	1.00	4.36	A	C
ATOM	509	CD1	ILE	A	184	182.025	181.076	3.939	1.00	5.66	A	C
ATOM	510	C	ILE	A	184	179.633	179.675	8.149	1.00	12.74	A	C
ATOM	511	O	ILE	A	184	178.552	179.077	8.135	1.00	13.03	A	O
ATOM	512	N	GLN	A	185	180.585	179.380	9.026	1.00	14.41	A	N
ATOM	513	CA	GLN	A	185	180.365	178.279	9.960	1.00	15.94	A	C
ATOM	514	CB	GLN	A	185	181.663	177.933	10.682	1.00	15.68	A	C
ATOM	515	CG	GLN	A	185	181.684	176.556	11.281	1.00	15.22	A	C
ATOM	516	CD	GLN	A	185	182.955	176.333	12.074	1.00	16.62	A	C
ATOM	517	OE1	GLN	A	185	183.844	177.184	12.072	1.00	19.84	A	O
ATOM	518	NE2	GLN	A	185	183.048	175.198	12.760	1.00	15.50	A	N
ATOM	519	C	GLN	A	185	179.257	178.551	10.977	1.00	14.85	A	C
ATOM	520	O	GLN	A	185	178.507	177.637	11.339	1.00	11.63	A	O
ATOM	521	N	SER	A	186	179.134	179.798	11.424	1.00	14.21	A	N
ATOM	522	CA	SER	A	186	178.102	180.102	12.421	1.00	15.30	A	C
ATOM	523	CB	SER	A	186	178.265	181.527	13.028	1.00	15.24	A	C
ATOM	524	OG	SER	A	186	178.146	182.584	12.086	1.00	16.11	A	O
ATOM	525	C	SER	A	186	176.686	179.916	11.898	1.00	15.48	A	C
ATOM	526	O	SER	A	186	175.787	179.612	12.672	1.00	20.12	A	O
ATOM	527	N	HIS	A	187	176.483	180.048	10.592	1.00	15.79	A	N
ATOM	528	CA	HIS	A	187	175.153	179.908	10.018	1.00	15.76	A	C
ATOM	529	CB	HIS	A	187	174.964	180.942	8.914	1.00	14.22	A	C
ATOM	530	CG	HIS	A	187	174.857	182.348	9.414	1.00	14.55	A	C
ATOM	531	CD2	HIS	A	187	173.787	183.070	9.816	1.00	12.55	A	C
ATOM	532	ND1	HIS	A	187	175.944	183.189	9.516	1.00	13.11	A	N
ATOM	533	CE1	HIS	A	187	175.548	184.369	9.951	1.00	10.14	A	C
ATOM	534	NE2	HIS	A	187	174.243	184.324	10.140	1.00	15.06	A	N
ATOM	535	C	HIS	A	187	174.838	178.515	9.469	1.00	17.67	A	C
ATOM	536	O	HIS	A	187	173.762	178.272	8.931	1.00	17.40	A	O
ATOM	537	N	LEU	A	188	175.777	177.595	9.616	1.00	18.89	A	N
ATOM	538	CA	LEU	A	188	175.608	176.243	9.118	1.00	16.21	A	C
ATOM	539	CB	LEU	A	188	176.972	175.721	8.652	1.00	15.40	A	C
ATOM	540	CG	LEU	A	188	177.339	175.433	7.185	1.00	14.79	A	C
ATOM	541	CD1	LEU	A	188	176.514	176.200	6.155	1.00	14.64	A	C
ATOM	542	CD2	LEU	A	188	178.805	175.738	7.024	1.00	11.29	A	C
ATOM	543	C	LEU	A	188	175.047	175.408	10.266	1.00	17.59	A	C
ATOM	544	O	LEU	A	188	175.382	175.630	11.423	1.00	19.21	A	O
ATOM	545	N	ARG	A	189	174.174	174.458	9.955	1.00	19.36	A	N
ATOM	546	CA	ARG	A	189	173.579	173.603	10.988	1.00	21.36	A	C
ATOM	547	CB	ARG	A	189	172.190	174.086	11.398	1.00	22.58	A	C
ATOM	548	CG	ARG	A	189	172.131	175.420	12.110	1.00	32.57	A	C
ATOM	549	CD	ARG	A	189	172.277	175.274	13.621	1.00	34.83	A	C
ATOM	550	NE	ARG	A	189	172.168	176.568	14.298	1.00	40.56	A	N
ATOM	551	CZ	ARG	A	189	172.993	177.598	14.091	1.00	43.35	A	C
ATOM	552	NH1	ARG	A	189	173.993	177.481	13.215	1.00	42.31	A	N
ATOM	553	NH2	ARG	A	189	172.827	178.740	14.770	1.00	42.32	A	N

ATOM	554	C	ARG A 189	173.423	172.219	10.415	1.00	19.45	A	C
ATOM	555	O	ARG A 189	172.582	171.996	9.558	1.00	19.37	A	O
ATOM	556	N	HIS A 190	174.218	171.283	10.900	1.00	16.48	A	N
ATOM	557	CA	HIS A 190	174.148	169.936	10.388	1.00	16.32	A	C
ATOM	558	CB	HIS A 190	174.865	169.868	9.042	1.00	13.06	A	C
ATOM	559	CG	HIS A 190	174.848	168.517	8.403	1.00	8.96	A	C
ATOM	560	CD2	HIS A 190	175.640	167.430	8.584	1.00	9.19	A	C
ATOM	561	ND1	HIS A 190	173.942	168.169	7.422	1.00	9.60	A	N
ATOM	562	CE1	HIS A 190	174.177	166.929	7.026	1.00	8.25	A	C
ATOM	563	NE2	HIS A 190	175.202	166.456	7.717	1.00	10.48	A	N
ATOM	564	C	HIS A 190	174.857	169.069	11.409	1.00	18.77	A	C
ATOM	565	O	HIS A 190	175.747	169.538	12.110	1.00	19.58	A	O
ATOM	566	N	PRO A 191	174.437	167.797	11.526	1.00	19.81	A	N
ATOM	567	CD	PRO A 191	173.236	167.329	10.808	1.00	18.67	A	C
ATOM	568	CA	PRO A 191	174.946	166.749	12.430	1.00	18.82	A	C
ATOM	569	CB	PRO A 191	174.058	165.545	12.108	1.00	15.98	A	C
ATOM	570	CG	PRO A 191	172.813	166.147	11.615	1.00	19.49	A	C
ATOM	571	C	PRO A 191	176.422	166.383	12.239	1.00	15.63	A	C
ATOM	572	O	PRO A 191	177.074	165.908	13.167	1.00	16.18	A	O
ATOM	573	N	ASN A 192	176.930	166.564	11.029	1.00	13.38	A	N
ATOM	574	CA	ASN A 192	178.306	166.216	10.740	1.00	13.06	A	C
ATOM	575	CB	ASN A 192	178.367	165.242	9.568	1.00	16.94	A	C
ATOM	576	CG	ASN A 192	177.621	163.963	9.853	1.00	21.40	A	C
ATOM	577	OD1	ASN A 192	176.478	163.790	9.431	1.00	24.81	A	C
ATOM	578	ND2	ASN A 192	178.255	163.062	10.596	1.00	19.25	A	O
ATOM	579	C	ASN A 192	179.189	167.407	10.467	1.00	13.65	A	C
ATOM	580	O	ASN A 192	180.258	167.276	9.869	1.00	15.58	A	O
ATOM	581	N	ILE A 193	178.725	168.584	10.865	1.00	13.34	A	N
ATOM	582	CA	ILE A 193	179.529	169.789	10.734	1.00	12.06	A	C
ATOM	583	CB	ILE A 193	178.886	170.843	9.814	1.00	11.35	A	C
ATOM	584	CG2	ILE A 193	179.688	172.131	9.882	1.00	5.81	A	C
ATOM	585	CG1	ILE A 193	178.807	170.317	8.381	1.00	6.17	A	C
ATOM	586	CD1	ILE A 193	178.045	171.205	7.453	1.00	8.69	A	C
ATOM	587	C	ILE A 193	179.651	170.377	12.134	1.00	12.85	A	C
ATOM	588	O	ILE A 193	178.663	170.540	12.840	1.00	14.90	A	O
ATOM	589	N	LEU A 194	180.874	170.678	12.530	1.00	13.66	A	N
ATOM	590	CA	LEU A 194	181.123	171.253	13.839	1.00	14.76	A	C
ATOM	591	CB	LEU A 194	182.623	171.519	14.036	1.00	16.68	A	C
ATOM	592	CG	LEU A 194	183.117	171.537	15.486	1.00	15.84	A	C
ATOM	593	CD1	LEU A 194	183.039	170.099	16.000	1.00	14.02	A	C
ATOM	594	CD2	LEU A 194	184.545	172.073	15.588	1.00	14.49	A	C
ATOM	595	C	LEU A 194	180.381	172.578	13.964	1.00	16.81	A	C
ATOM	596	O	LEU A 194	180.450	173.433	13.070	1.00	18.34	A	C
ATOM	597	N	ARG A 195	179.683	172.727	15.085	1.00	15.08	A	O
ATOM	598	CA	ARG A 195	178.924	173.924	15.390	1.00	16.45	A	N
ATOM	599	CB	ARG A 195	177.878	173.634	16.474	1.00	19.44	A	C
ATOM	600	CG	ARG A 195	176.596	172.975	15.987	1.00	25.93	A	C
ATOM	601	CD	ARG A 195	175.746	173.967	15.232	1.00	29.82	A	C
ATOM	602	NE	ARG A 195	174.811	174.694	16.091	1.00	36.41	A	N
ATOM	603	CZ	ARG A 195	174.859	176.008	16.302	1.00	39.91	A	C
ATOM	604	NH1	ARG A 195	175.804	176.729	15.718	1.00	44.61	A	N
ATOM	605	NH2	ARG A 195	173.958	176.608	17.075	1.00	40.14	A	N
ATOM	606	C	ARG A 195	179.787	175.113	15.870	1.00	16.17	A	C
ATOM	607	O	ARG A 195	180.714	174.950	16.656	1.00	13.03	A	O
ATOM	608	N	LEU A 196	179.471	176.293	15.341	1.00	17.85	A	N
ATOM	609	CA	LEU A 196	180.114	177.536	15.749	1.00	16.50	A	C
ATOM	610	CB	LEU A 196	180.623	178.380	14.572	1.00	13.17	A	C
ATOM	611	CG	LEU A 196	181.348	179.669	14.959	1.00	15.31	A	C
ATOM	612	CD1	LEU A 196	182.467	179.277	15.910	1.00	13.98	A	C
ATOM	613	CD2	LEU A 196	181.922	180.404	13.749	1.00	12.29	A	C
ATOM	614	C	LEU A 196	178.975	178.281	16.466	1.00	15.90	A	C
ATOM	615	O	LEU A 196	178.037	178.767	15.839	1.00	15.06	A	C
ATOM	616	N	TYR A 197	179.062	178.337	17.791	1.00	18.19	A	O
ATOM	617	CA	TYR A 197	178.049	178.974	18.610	1.00	18.38	A	N
ATOM	618	CB	TYR A 197	178.154	178.464	20.033	1.00	15.79	A	C
ATOM	619	CG	TYR A 197	177.908	176.980	20.126	1.00	17.64	A	C
ATOM	620	CD1	TYR A 197	178.955	176.080	20.280	1.00	15.26	A	C
ATOM	621	CE1	TYR A 197	178.712	174.718	20.364	1.00	20.64	A	C
ATOM	622	CD2	TYR A 197	176.607	176.469	20.054	1.00	21.32	A	C
ATOM	623	CE2	TYR A 197	176.360	175.104	20.138	1.00	20.23	A	C

ATOM	624	CZ	TYR A 197	177.418	174.242	20.293	1.00	20.94	A	C
ATOM	625	OH	TYR A 197	177.185	172.900	20.387	1.00	26.42	A	O
ATOM	626	C	TYR A 197	178.174	180.481	18.561	1.00	19.88	A	C
ATOM	627	O	TYR A 197	177.180	181.193	18.454	1.00	19.95	A	O
ATOM	628	N	GLY A 198	179.394	180.985	18.611	1.00	20.35	A	N
ATOM	629	CA	GLY A 198	179.542	182.425	18.562	1.00	20.00	A	C
ATOM	630	C	GLY A 198	180.984	182.838	18.642	1.00	17.90	A	C
ATOM	631	O	GLY A 198	181.874	182.005	18.677	1.00	19.17	A	O
ATOM	632	N	TYR A 199	181.222	184.134	18.686	1.00	17.72	A	O
ATOM	633	CA	TYR A 199	182.589	184.593	18.748	1.00	19.93	A	C
ATOM	634	CB	TYR A 199	183.128	184.776	17.325	1.00	19.83	A	C
ATOM	635	CG	TYR A 199	182.894	186.166	16.788	1.00	21.41	A	C
ATOM	636	CD1	TYR A 199	183.892	167.135	16.885	1.00	21.65	A	C
ATOM	637	CE1	TYR A 199	183.677	188.430	16.486	1.00	22.65	A	C
ATOM	638	CD2	TYR A 199	181.660	186.538	16.266	1.00	18.59	A	C
ATOM	639	CE2	TYR A 199	181.426	187.841	15.862	1.00	22.04	A	C
ATOM	640	CZ	TYR A 199	182.439	188.787	15.972	1.00	23.54	A	C
ATOM	641	OH	TYR A 199	182.223	190.089	15.557	1.00	24.04	A	O
ATOM	642	C	TYR A 199	182.693	185.910	19.508	1.00	19.03	A	C
ATOM	643	O	TYR A 199	181.703	186.618	19.699	1.00	19.48	A	O
ATOM	644	N	PHE A 200	183.910	186.238	19.920	1.00	18.13	A	N
ATOM	645	CA	PHE A 200	184.177	187.478	20.627	1.00	17.58	A	C
ATOM	646	CB	PHE A 200	183.677	187.397	22.091	1.00	12.35	A	C
ATOM	647	CG	PHE A 200	184.369	186.344	22.955	1.00	13.81	A	C
ATOM	648	CD1	PHE A 200	185.449	186.685	23.779	1.00	14.44	A	C
ATOM	649	CD2	PHE A 200	183.898	185.033	22.998	1.00	12.16	A	C
ATOM	650	CE1	PHE A 200	186.043	185.731	24.636	1.00	13.44	A	C
ATOM	651	CE2	PHE A 200	184.474	184.075	23.845	1.00	13.42	A	C
ATOM	652	CZ	PHE A 200	185.552	184.426	24.669	1.00	13.28	A	C
ATOM	653	C	PHE A 200	185.675	187.756	20.549	1.00	18.86	A	C
ATOM	654	O	PHE A 200	186.482	186.840	20.451	1.00	24.13	A	O
ATOM	655	N	HIS A 201	186.056	189.019	20.573	1.00	19.06	A	N
ATOM	656	CA	HIS A 201	187.467	189.335	20.512	1.00	22.05	A	C
ATOM	657	CB	HIS A 201	187.820	189.966	19.159	1.00	20.51	A	C
ATOM	658	CG	HIS A 201	187.161	191.286	18.903	1.00	18.99	A	C
ATOM	659	CD2	HIS A 201	185.922	191.593	18.450	1.00	19.83	A	C
ATOM	660	ND1	HIS A 201	187.848	192.478	18.965	1.00	21.28	A	N
ATOM	661	CE1	HIS A 201	187.071	193.459	18.544	1.00	19.32	A	C
ATOM	662	NE2	HIS A 201	185.896	192.948	18.223	1.00	20.12	A	N
ATOM	663	C	HIS A 201	187.840	190.279	21.629	1.00	22.96	A	C
ATOM	664	O	HIS A 201	186.977	190.871	22.253	1.00	23.67	A	O
ATOM	665	N	ASP A 202	189.126	190.395	21.913	1.00	23.03	A	N
ATOM	666	CA	ASP A 202	189.535	191.331	22.936	1.00	24.25	A	C
ATOM	667	CB	ASP A 202	189.928	190.621	24.235	1.00	25.39	A	C
ATOM	668	CG	ASP A 202	191.175	189.780	24.097	1.00	28.38	A	C
ATOM	669	OD1	ASP A 202	191.836	189.826	23.031	1.00	34.60	A	O
ATOM	670	OD2	ASP A 202	191.495	189.066	25.067	1.00	24.71	A	O
ATOM	671	C	ASP A 202	190.696	192.148	22.398	1.00	25.07	A	C
ATOM	672	O	ASP A 202	190.896	192.235	21.193	1.00	24.05	A	O
ATOM	673	N	ALA A 203	191.480	192.733	23.287	1.00	26.38	A	N
ATOM	674	CA	ALA A 203	192.595	193.564	22.856	1.00	25.39	A	C
ATOM	675	CB	ALA A 203	193.217	194.257	24.082	1.00	23.30	A	C
ATOM	676	C	ALA A 203	193.678	192.847	22.039	1.00	25.31	A	C
ATOM	677	O	ALA A 203	194.184	193.405	21.070	1.00	24.76	A	O
ATOM	678	N	THR A 204	194.038	191.623	22.409	1.00	24.17	A	N
ATOM	679	CA	THR A 204	195.084	190.922	21.682	1.00	24.93	A	C
ATOM	680	CB	THR A 204	196.202	190.467	22.631	1.00	28.17	A	C
ATOM	681	OG1	THR A 204	195.667	189.534	23.582	1.00	29.58	A	O
ATOM	682	CG2	THR A 204	196.805	191.672	23.364	1.00	26.38	A	C
ATOM	683	C	THR A 204	194.638	189.711	20.869	1.00	26.55	A	C
ATOM	684	O	THR A 204	195.360	189.270	19.968	1.00	25.70	A	O
ATOM	685	N	ARG A 205	193.469	189.149	21.166	1.00	26.89	A	N
ATOM	686	CA	ARG A 205	193.039	188.002	20.382	1.00	26.09	A	C
ATOM	687	CB	ARG A 205	193.558	186.710	21.026	1.00	29.89	A	C
ATOM	688	CG	ARG A 205	193.403	186.595	22.508	1.00	35.65	A	C
ATOM	689	CD	ARG A 205	194.768	186.465	23.174	1.00	41.67	A	C
ATOM	690	NE	ARG A 205	194.650	186.517	24.630	1.00	50.08	A	N
ATOM	691	CZ	ARG A 205	195.657	186.756	25.467	1.00	53.61	A	C
ATOM	692	NH1	ARG A 205	196.884	186.972	24.997	1.00	54.63	A	N
ATOM	693	NH2	ARG A 205	195.429	186.782	26.781	1.00	57.41	A	N

ATOM	694	C	ARG A	205	191.561	187.869	20.036	1.00	23.76	A	C
ATOM	695	O	ARG A	205	190.728	188.654	20.478	1.00	26.35	A	O
ATOM	696	N	VAL A	206	191.253	186.892	19.187	1.00	21.67	A	N
ATOM	697	CA	VAL A	206	189.883	186.606	18.776	1.00	17.07	A	C
ATOM	698	CB	VAL A	206	189.704	186.683	17.247	1.00	16.64	A	C
ATOM	699	CG1	VAL A	206	188.235	186.422	16.888	1.00	11.75	A	C
ATOM	700	CG2	VAL A	206	190.136	188.055	16.741	1.00	15.29	A	C
ATOM	701	C	VAL A	206	189.541	185.179	19.225	1.00	16.35	A	C
ATOM	702	O	VAL A	206	190.380	184.277	19.146	1.00	15.34	A	O
ATOM	703	N	TYR A	207	188.308	184.987	19.688	1.00	15.70	A	N
ATOM	704	CA	TYR A	207	187.866	183.692	20.185	1.00	14.78	A	C
ATOM	705	CB	TYR A	207	187.555	183.754	21.686	1.00	14.30	A	C
ATOM	706	CG	TYR A	207	188.599	184.415	22.538	1.00	15.34	A	C
ATOM	707	CD1	TYR A	207	188.725	185.809	22.565	1.00	15.56	A	C
ATOM	708	CE1	TYR A	207	189.669	186.433	23.389	1.00	14.72	A	C
ATOM	709	CD2	TYR A	207	189.445	183.655	23.347	1.00	13.39	A	C
ATOM	710	CE2	TYR A	207	190.393	184.263	24.174	1.00	15.70	A	C
ATOM	711	CZ	TYR A	207	190.497	185.652	24.192	1.00	16.96	A	C
ATOM	712	OH	TYR A	207	191.413	186.252	25.028	1.00	17.44	A	O
ATOM	713	C	TYR A	207	186.624	183.132	19.506	1.00	14.64	A	C
ATOM	714	O	TYR A	207	185.604	183.807	19.390	1.00	14.86	A	O
ATOM	715	N	LEU A	208	186.716	181.882	19.082	1.00	12.98	A	N
ATOM	716	CA	LEU A	208	185.597	181.206	18.475	1.00	11.35	A	C
ATOM	717	CB	LEU A	208	186.025	180.515	17.181	1.00	12.38	A	C
ATOM	718	CG	LEU A	208	186.790	181.296	16.101	1.00	18.53	A	C
ATOM	719	CD1	LEU A	208	186.415	180.695	14.759	1.00	13.01	A	C
ATOM	720	CD2	LEU A	208	186.466	182.794	16.118	1.00	17.18	A	C
ATOM	721	C	LEU A	208	185.092	180.162	19.473	1.00	11.42	A	C
ATOM	722	O	LEU A	208	185.875	179.354	19.978	1.00	9.69	A	O
ATOM	723	N	ILE A	209	183.789	180.194	19.753	1.00	11.10	A	N
ATOM	724	CA	ILE A	209	183.146	179.268	20.670	1.00	10.69	A	C
ATOM	725	CB	ILE A	209	181.968	179.962	21.389	1.00	13.97	A	C
ATOM	726	CG2	ILE A	209	181.316	178.980	22.422	1.00	10.28	A	C
ATOM	727	CG1	ILE A	209	182.489	181.303	21.979	1.00	14.77	A	C
ATOM	728	CD1	ILE A	209	181.466	182.209	22.621	1.00	10.27	A	C
ATOM	729	C	ILE A	209	182.659	178.124	19.785	1.00	13.02	A	C
ATOM	730	O	ILE A	209	181.689	178.238	19.040	1.00	13.94	A	O
ATOM	731	N	LEU A	210	183.373	177.019	19.856	1.00	12.66	A	N
ATOM	732	CA	LEU A	210	183.065	175.867	19.044	1.00	13.21	A	C
ATOM	733	CB	LEU A	210	184.348	175.383	18.375	1.00	13.93	A	C
ATOM	734	CG	LEU A	210	185.046	176.317	17.381	1.00	16.57	A	C
ATOM	735	CD1	LEU A	210	186.507	175.915	17.264	1.00	14.44	A	C
ATOM	736	CD2	LEU A	210	184.351	176.245	16.022	1.00	12.75	A	C
ATOM	737	C	LEU A	210	182.464	174.731	19.841	1.00	10.33	A	C
ATOM	738	O	LEU A	210	182.591	174.664	21.053	1.00	14.25	A	O
ATOM	739	N	GLU A	211	181.784	173.843	19.139	1.00	11.52	A	N
ATOM	740	CA	GLU A	211	181.218	172.646	19.739	1.00	12.06	A	C
ATOM	741	CB	GLU A	211	180.272	171.970	18.751	1.00	15.25	A	C
ATOM	742	CG	GLU A	211	180.147	170.462	18.927	1.00	16.63	A	C
ATOM	743	CD	GLU A	211	179.379	169.783	17.784	1.00	23.31	A	C
ATOM	744	OE1	GLU A	211	179.201	168.531	17.837	1.00	22.59	A	O
ATOM	745	OE2	GLU A	211	178.954	170.500	16.829	1.00	22.15	A	O
ATOM	746	C	GLU A	211	182.424	171.723	20.009	1.00	14.58	A	C
ATOM	747	O	GLU A	211	183.296	171.561	19.156	1.00	11.41	A	O
ATOM	748	N	TYR A	212	182.466	171.133	21.196	1.00	13.40	A	N
ATOM	749	CA	TYR A	212	183.555	170.247	21.589	1.00	15.01	A	C
ATOM	750	CB	TYR A	212	183.541	170.072	23.108	1.00	16.32	A	C
ATOM	751	CG	TYR A	212	184.387	168.938	23.679	1.00	18.16	A	C
ATOM	752	CD1	TYR A	212	185.744	168.820	23.391	1.00	15.83	A	C
ATOM	753	CE1	TYR A	212	186.528	167.845	24.013	1.00	16.35	A	C
ATOM	754	CD2	TYR A	212	183.829	168.042	24.601	1.00	18.49	A	C
ATOM	755	CE2	TYR A	212	184.590	167.074	25.223	1.00	16.40	A	C
ATOM	756	CZ	TYR A	212	185.934	166.973	24.934	1.00	19.22	A	C
ATOM	757	OH	TYR A	212	186.655	165.995	25.594	1.00	15.81	A	O
ATOM	758	C	TYR A	212	183.463	168.889	20.909	1.00	15.14	A	C
ATOM	759	O	TYR A	212	182.414	168.259	20.920	1.00	14.66	A	C
ATOM	760	N	ALA A	213	184.561	168.451	20.297	1.00	15.74	A	O
ATOM	761	CA	ALA A	213	184.623	167.142	19.636	1.00	14.66	A	C
ATOM	762	CB	ALA A	213	185.341	167.270	18.302	1.00	16.59	A	C
ATOM	763	C	ALA A	213	185.417	166.270	20.615	1.00	16.61	A	C

ATOM	764	O	ALA A 213	186.638	166.352	20.682	1.00	16.21	A	O
ATOM	765	N	PRO A 214	184.724	165.418	21.380	1.00	15.97	A	N
ATOM	766	CD	PRO A 214	183.323	165.077	21.082	1.00	15.58	A	C
ATOM	767	CA	PRO A 214	185.258	164.515	22.398	1.00	15.31	A	C
ATOM	768	CB	PRO A 214	184.000	163.837	22.963	1.00	14.60	A	C
ATOM	769	CG	PRO A 214	182.844	164.624	22.417	1.00	17.26	A	C
ATOM	770	C	PRO A 214	186.319	163.472	22.000	1.00	17.90	A	C
ATOM	771	O	PRO A 214	187.172	163.152	22.829	1.00	18.00	A	O
ATOM	772	N	LEU A 215	186.274	162.922	20.777	1.00	14.95	A	N
ATOM	773	CA	LEU A 215	187.214	161.880	20.362	1.00	14.66	A	C
ATOM	774	CB	LEU A 215	186.453	160.710	19.692	1.00	16.00	A	C
ATOM	775	CG	LEU A 215	185.316	160.072	20.536	1.00	22.00	A	C
ATOM	776	CD1	LEU A 215	184.664	158.818	19.898	1.00	17.85	A	C
ATOM	777	CD2	LEU A 215	185.906	159.717	21.877	1.00	20.55	A	C
ATOM	778	C	LEU A 215	188.415	162.306	19.505	1.00	14.59	A	C
ATOM	779	O	LEU A 215	189.093	161.477	18.905	1.00	14.29	A	O
ATOM	780	N	GLY A 216	188.691	163.603	19.455	1.00	16.74	A	N
ATOM	781	CA	GLY A 216	189.836	164.070	18.694	1.00	14.83	A	C
ATOM	782	C	GLY A 216	189.701	164.060	17.184	1.00	13.54	A	C
ATOM	783	O	GLY A 216	188.597	164.008	16.656	1.00	12.48	A	O
ATOM	784	N	THR A 217	190.843	164.091	16.497	1.00	12.97	A	N
ATOM	785	CA	THR A 217	190.867	164.136	15.044	1.00	14.08	A	C
ATOM	786	CB	THR A 217	192.005	164.998	14.503	1.00	14.49	A	C
ATOM	787	OG1	THR A 217	193.242	164.310	14.733	1.00	16.68	A	O
ATOM	788	CG2	THR A 217	192.043	166.347	15.167	1.00	10.84	A	C
ATOM	789	C	THR A 217	191.060	162.811	14.347	1.00	16.46	A	C
ATOM	790	O	THR A 217	191.741	161.910	14.849	1.00	15.02	A	O
ATOM	791	N	VAL A 218	190.481	162.721	13.153	1.00	16.27	A	N
ATOM	792	CA	VAL A 218	190.616	161.533	12.340	1.00	15.99	A	C
ATOM	793	CB	VAL A 218	189.802	161.683	11.038	1.00	16.57	A	C
ATOM	794	CG1	VAL A 218	190.263	160.649	9.999	1.00	18.56	A	C
ATOM	795	CG2	VAL A 218	188.339	161.504	11.349	1.00	11.27	A	C
ATOM	796	C	VAL A 218	192.117	161.366	12.051	1.00	16.41	A	C
ATOM	797	O	VAL A 218	192.611	160.255	11.896	1.00	15.84	A	O
ATOM	798	N	TYR A 219	192.826	162.487	12.008	1.00	15.85	A	N
ATOM	799	CA	TYR A 219	194.261	162.509	11.789	1.00	16.76	A	C
ATOM	800	CB	TYR A 219	194.771	163.937	11.908	1.00	18.52	A	C
ATOM	801	CG	TYR A 219	196.259	164.024	11.800	1.00	19.33	A	C
ATOM	802	CD1	TYR A 219	196.870	163.870	10.570	1.00	17.55	A	C
ATOM	803	CE1	TYR A 219	198.249	163.929	10.450	1.00	23.59	A	C
ATOM	804	CD2	TYR A 219	197.065	164.236	12.936	1.00	21.27	A	C
ATOM	805	CE2	TYR A 219	198.454	164.289	12.834	1.00	20.92	A	C
ATOM	806	CZ	TYR A 219	199.032	164.136	11.584	1.00	24.53	A	O
ATOM	807	OH	TYR A 219	200.392	164.188	11.448	1.00	28.22	A	C
ATOM	808	C	TYR A 219	194.999	161.661	12.826	1.00	18.49	A	O
ATOM	809	O	TYR A 219	195.910	160.888	12.494	1.00	18.32	A	O
ATOM	810	N	ARG A 220	194.617	161.836	14.086	1.00	16.66	A	N
ATOM	811	CA	ARG A 220	195.247	161.100	15.154	1.00	19.76	A	C
ATOM	812	CB	ARG A 220	194.848	161.674	16.514	1.00	22.26	A	C
ATOM	813	CG	ARG A 220	195.514	160.949	17.669	1.00	27.26	A	C
ATOM	814	CD	ARG A 220	197.039	161.124	17.660	1.00	29.11	A	C
ATOM	815	NE	ARG A 220	197.689	160.200	18.595	1.00	32.84	A	N
ATOM	816	CZ	ARG A 220	199.003	160.005	18.702	1.00	35.53	A	C
ATOM	817	NH1	ARG A 220	199.867	160.669	17.931	1.00	39.53	A	N
ATOM	818	NH2	ARG A 220	199.449	159.129	19.594	1.00	36.11	A	N
ATOM	819	C	ARG A 220	194.908	159.608	15.088	1.00	19.85	A	C
ATOM	820	O	ARG A 220	195.768	158.748	15.322	1.00	19.84	A	O
ATOM	821	N	GLU A 221	193.661	159.309	14.746	1.00	19.44	A	N
ATOM	822	CA	GLU A 221	193.192	157.935	14.628	1.00	21.14	A	C
ATOM	823	CB	GLU A 221	191.670	157.930	14.386	1.00	22.94	A	C
ATOM	824	CG	GLU A 221	190.968	156.594	14.519	1.00	27.24	A	C
ATOM	825	CD	GLU A 221	191.078	155.998	15.918	1.00	30.92	A	C
ATOM	826	OE1	GLU A 221	190.736	154.798	16.073	1.00	35.57	A	O
ATOM	827	OE2	GLU A 221	191.502	156.716	16.857	1.00	31.40	A	O
ATOM	828	C	GLU A 221	193.930	157.268	13.465	1.00	22.03	A	C
ATOM	829	O	GLU A 221	194.201	156.061	13.493	1.00	21.79	A	O
ATOM	830	N	LEU A 222	194.257	158.060	12.442	1.00	20.91	A	N
ATOM	831	CA	LEU A 222	194.969	157.533	11.287	1.00	18.01	A	C
ATOM	832	CB	LEU A 222	194.838	158.485	10.079	1.00	17.83	A	C
ATOM	833	CG	LEU A 222	195.181	157.923	8.676	1.00	21.87	A	C

ATOM	834	CD1	LEU	A	222	194.366	156.652	8.358	1.00	17.44	A	C
ATOM	835	CD2	LEU	A	222	194.892	159.007	7.634	1.00	19.79	A	C
ATOM	836	C	LEU	A	222	196.439	157.261	11.639	1.00	16.91	A	C
ATOM	837	O	LEU	A	222	197.012	156.317	11.119	1.00	16.89	A	O
ATOM	838	N	GLN	A	223	197.062	158.066	12.503	1.00	16.66	A	N
ATOM	839	CA	GLN	A	223	198.446	157.769	12.900	1.00	17.24	A	C
ATOM	840	CB	GLN	A	223	199.022	158.808	13.850	1.00	19.18	A	C
ATOM	841	CG	GLN	A	223	199.250	160.205	13.317	1.00	28.34	A	C
ATOM	842	CD	GLN	A	223	199.954	161.058	14.355	1.00	31.88	A	C
ATOM	843	OE1	GLN	A	223	199.437	161.241	15.474	1.00	31.86	A	O
ATOM	844	NE2	GLN	A	223	201.149	161.584	14.005	1.00	34.43	A	N
ATOM	845	C	GLN	A	223	198.456	156.448	13.688	1.00	21.01	A	C
ATOM	846	O	GLN	A	223	199.360	155.630	13.523	1.00	18.77	A	O
ATOM	847	N	LYS	A	224	197.464	156.277	14.570	1.00	21.30	A	N
ATOM	848	CA	LYS	A	224	197.357	155.099	15.419	1.00	21.07	A	C
ATOM	849	CB	LYS	A	224	196.258	155.300	16.492	1.00	24.80	A	C
ATOM	850	CG	LYS	A	224	196.479	156.522	17.399	1.00	26.43	A	C
ATOM	851	CD	LYS	A	224	195.427	156.642	18.505	1.00	30.49	A	C
ATOM	852	CE	LYS	A	224	195.834	157.727	19.507	1.00	31.44	A	C
ATOM	853	NZ	LYS	A	224	194.917	157.868	20.668	1.00	33.32	A	N
ATOM	854	C	LYS	A	224	197.088	153.812	14.647	1.00	20.29	A	C
ATOM	855	O	LYS	A	224	197.799	152.829	14.821	1.00	19.90	A	O
ATOM	856	N	LEU	A	225	196.059	153.800	13.806	1.00	20.45	A	N
ATOM	857	CA	LEU	A	225	195.753	152.603	13.039	1.00	18.46	A	C
ATOM	858	CB	LEU	A	225	194.272	152.588	12.615	1.00	20.03	A	C
ATOM	859	CG	LEU	A	225	193.224	152.691	13.740	1.00	24.89	A	C
ATOM	860	CD1	LEU	A	225	191.784	152.656	13.213	1.00	20.57	A	C
ATOM	861	CD2	LEU	A	225	193.462	151.543	14.674	1.00	26.58	A	C
ATOM	862	C	LEU	A	225	196.631	152.464	11.780	1.00	19.83	A	C
ATOM	863	O	LEU	A	225	196.694	151.381	11.186	1.00	20.09	A	O
ATOM	864	N	SER	A	226	197.296	153.545	11.375	1.00	18.33	A	N
ATOM	865	CA	SER	A	226	198.137	153.578	10.158	1.00	21.51	A	C
ATOM	866	CB	SER	A	226	199.160	152.426	10.124	1.00	21.48	A	C
ATOM	867	OG	SER	A	226	200.116	152.533	11.177	1.00	27.63	A	O
ATOM	868	C	SER	A	226	197.295	153.542	8.871	1.00	20.48	A	C
ATOM	869	O	SER	A	226	197.566	154.284	7.927	1.00	19.41	A	O
ATOM	870	N	LYS	A	227	196.290	152.664	8.838	1.00	20.02	A	N
ATOM	871	CA	LYS	A	227	195.358	152.524	7.697	1.00	19.86	A	C
ATOM	872	CB	LYS	A	227	195.668	151.280	6.876	1.00	24.72	A	C
ATOM	873	CG	LYS	A	227	196.854	151.364	5.990	1.00	29.64	A	C
ATOM	874	CD	LYS	A	227	197.148	149.990	5.419	1.00	35.21	A	C
ATOM	875	CE	LYS	A	227	198.330	150.088	4.465	1.00	41.32	A	C
ATOM	876	NZ	LYS	A	227	198.843	148.758	4.016	1.00	43.82	A	N
ATOM	877	C	LYS	A	227	193.970	152.303	8.274	1.00	16.62	A	C
ATOM	878	O	LYS	A	227	193.852	151.881	9.411	1.00	18.80	A	O
ATOM	879	N	PHE	A	228	192.930	152.584	7.499	1.00	14.54	A	N
ATOM	880	CA	PHE	A	228	191.548	152.342	7.932	1.00	15.70	A	C
ATOM	881	CB	PHE	A	228	190.665	153.590	7.729	1.00	12.09	A	C
ATOM	882	CG	PHE	A	228	190.958	154.697	8.679	1.00	13.97	A	C
ATOM	883	CD1	PHE	A	228	190.564	156.005	8.400	1.00	14.03	A	C
ATOM	884	CD2	PHE	A	228	191.629	154.439	9.860	1.00	13.49	A	C
ATOM	885	CE1	PHE	A	228	190.844	157.046	9.299	1.00	12.37	A	C
ATOM	886	CE2	PHE	A	228	191.912	155.466	10.767	1.00	14.79	A	C
ATOM	887	CZ	PHE	A	228	191.520	156.772	10.487	1.00	11.50	A	C
ATOM	888	C	PHE	A	228	191.051	151.227	7.016	1.00	15.70	A	C
ATOM	889	O	PHE	A	228	191.399	151.212	5.833	1.00	16.89	A	O
ATOM	890	N	ASP	A	229	190.261	150.290	7.536	1.00	16.61	A	N
ATOM	891	CA	ASP	A	229	189.753	149.221	6.666	1.00	18.23	A	C
ATOM	892	CB	ASP	A	229	189.261	148.005	7.478	1.00	17.42	A	C
ATOM	893	CG	ASP	A	229	188.092	148.325	8.369	1.00	20.41	A	C
ATOM	894	OD1	ASP	A	229	187.161	149.024	7.930	1.00	28.20	A	O
ATOM	895	OD2	ASP	A	229	188.072	147.859	9.511	1.00	26.24	A	O
ATOM	896	C	ASP	A	229	188.624	149.817	5.810	1.00	16.57	A	C
ATOM	897	O	ASP	A	229	188.322	151.006	5.939	1.00	17.37	A	O
ATOM	898	N	GLU	A	230	187.998	149.020	4.952	1.00	15.33	A	N
ATOM	899	CA	GLU	A	230	186.947	149.560	4.084	1.00	17.43	A	C
ATOM	900	CB	GLU	A	230	186.571	148.541	3.002	1.00	16.24	A	C
ATOM	901	CG	GLU	A	230	187.743	148.066	2.153	1.00	23.01	A	C
ATOM	902	CD	GLU	A	230	187.313	147.497	0.794	1.00	27.22	A	C
ATOM	903	OE1	GLU	A	230	186.584	146.478	0.753	1.00	28.49	A	O

ATOM	904	OE2	GLU	A	230	187.711	148.085	-0.244	1.00	29.45	A	O
ATOM	905	C	GLU	A	230	185.680	150.062	4.783	1.00	16.70	A	C
ATOM	906	O	GLU	A	230	185.141	151.099	4.419	1.00	13.33	A	O
ATOM	907	N	GLN	A	231	185.209	149.326	5.782	1.00	16.53	A	N
ATOM	908	CA	GLN	A	231	184.003	149.711	6.512	1.00	17.02	A	C
ATOM	909	CB	GLN	A	231	183.728	148.656	7.596	1.00	15.32	A	C
ATOM	910	CG	GLN	A	231	182.370	148.737	8.289	1.00	17.56	A	C
ATOM	911	CD	GLN	A	231	182.297	149.841	9.359	1.00	22.59	A	C
ATOM	912	OE1	GLN	A	231	183.298	150.112	10.075	1.00	21.11	A	O
ATOM	913	NE2	GLN	A	231	181.106	150.478	9.494	1.00	19.70	A	O
ATOM	914	C	GLN	A	231	184.195	151.124	7.120	1.00	17.00	A	C
ATOM	915	O	GLN	A	231	183.381	152.024	6.890	1.00	18.40	A	O
ATOM	916	N	ARG	A	232	185.281	151.308	7.873	1.00	17.36	A	N
ATOM	917	CA	ARG	A	232	185.607	152.593	8.509	1.00	17.63	A	C
ATOM	918	CB	ARG	A	232	186.905	152.465	9.307	1.00	19.87	A	C
ATOM	919	CG	ARG	A	232	187.205	153.647	10.172	1.00	20.99	A	C
ATOM	920	CD	ARG	A	232	186.795	153.359	11.597	1.00	28.38	A	C
ATOM	921	NE	ARG	A	232	187.588	154.189	12.487	1.00	32.23	A	N
ATOM	922	CZ	ARG	A	232	188.247	153.745	13.545	1.00	31.41	A	C
ATOM	923	NH1	ARG	A	232	188.213	152.459	13.873	1.00	29.13	A	N
ATOM	924	NH2	ARG	A	232	188.963	154.604	14.257	1.00	35.98	A	N
ATOM	925	C	ARG	A	232	185.770	153.747	7.507	1.00	14.94	A	C
ATOM	926	O	ARG	A	232	185.356	154.866	7.761	1.00	12.98	A	O
ATOM	927	N	THR	A	233	186.403	153.457	6.384	1.00	13.16	A	N
ATOM	928	CA	THR	A	233	186.652	154.446	5.361	1.00	13.60	A	C
ATOM	929	CB	THR	A	233	187.719	153.902	4.340	1.00	14.55	A	C
ATOM	930	OG1	THR	A	233	188.937	153.623	5.048	1.00	14.87	A	O
ATOM	931	CG2	THR	A	233	188.016	154.908	3.231	1.00	13.20	A	C
ATOM	932	C	THR	A	233	185.339	154.863	4.686	1.00	13.47	A	C
ATOM	933	O	THR	A	233	185.090	156.056	4.508	1.00	12.81	A	O
ATOM	934	N	ALA	A	234	184.481	153.901	4.353	1.00	11.54	A	N
ATOM	935	CA	ALA	A	234	183.199	154.225	3.713	1.00	12.90	A	C
ATOM	936	CB	ALA	A	234	182.531	152.967	3.184	1.00	6.31	A	C
ATOM	937	C	ALA	A	234	182.254	154.953	4.675	1.00	15.13	A	C
ATOM	938	O	ALA	A	234	181.498	155.843	4.272	1.00	18.25	A	O
ATOM	939	N	THR	A	235	182.297	154.579	5.945	1.00	13.08	A	N
ATOM	940	CA	THR	A	235	181.450	155.221	6.909	1.00	11.34	A	C
ATOM	941	CB	THR	A	235	181.581	154.543	8.289	1.00	13.04	A	C
ATOM	942	OG1	THR	A	235	181.181	153.167	8.177	1.00	13.03	A	O
ATOM	943	CG2	THR	A	235	180.679	155.235	9.304	1.00	9.30	A	C
ATOM	944	C	THR	A	235	181.813	156.701	6.976	1.00	12.76	A	C
ATOM	945	O	THR	A	235	180.930	157.553	6.894	1.00	14.21	A	O
ATOM	946	N	TYR	A	236	183.104	157.003	7.115	1.00	12.83	A	N
ATOM	947	CA	TYR	A	236	183.586	158.392	7.157	1.00	14.72	A	C
ATOM	948	CB	TYR	A	236	185.096	158.451	7.371	1.00	16.17	A	C
ATOM	949	CG	TYR	A	236	185.572	158.175	8.772	1.00	16.12	A	C
ATOM	950	CD1	TYR	A	236	184.785	158.491	9.876	1.00	16.03	A	C
ATOM	951	CE1	TYR	A	236	185.237	158.261	11.162	1.00	16.90	A	C
ATOM	952	CD2	TYR	A	236	186.830	157.626	8.993	1.00	13.79	A	C
ATOM	953	CE2	TYR	A	236	187.290	157.397	10.266	1.00	15.98	A	C
ATOM	954	CZ	TYR	A	236	186.490	157.709	11.347	1.00	19.04	A	C
ATOM	955	OH	TYR	A	236	186.935	157.420	12.609	1.00	22.33	A	O
ATOM	956	C	TYR	A	236	183.291	159.154	5.862	1.00	16.50	A	C
ATOM	957	O	TYR	A	236	182.873	160.311	5.898	1.00	15.39	A	O
ATOM	958	N	ILE	A	237	183.536	158.517	4.718	1.00	14.99	A	N
ATOM	959	CA	ILE	A	237	183.274	159.176	3.456	1.00	15.34	A	C
ATOM	960	CB	ILE	A	237	183.656	158.295	2.242	1.00	15.72	A	C
ATOM	961	CG2	ILE	A	237	183.331	159.027	0.960	1.00	17.81	A	C
ATOM	962	CG1	ILE	A	237	185.157	157.993	2.241	1.00	13.11	A	C
ATOM	963	CD1	ILE	A	237	186.062	159.254	2.278	1.00	13.67	A	C
ATOM	964	C	ILE	A	237	181.795	159.542	3.379	1.00	17.56	A	C
ATOM	965	O	ILE	A	237	181.442	160.638	2.953	1.00	18.55	A	O
ATOM	966	N	THR	A	238	160.935	158.626	3.804	1.00	17.36	A	N
ATOM	967	CA	THR	A	238	179.489	158.853	3.816	1.00	14.99	A	C
ATOM	968	CB	THR	A	238	178.760	157.600	4.330	1.00	13.08	A	C
ATOM	969	OG1	THR	A	238	179.059	156.502	3.464	1.00	16.26	A	O
ATOM	970	CG2	THR	A	238	177.257	157.817	4.354	1.00	13.58	A	C
ATOM	971	C	THR	A	238	179.069	160.037	4.696	1.00	14.23	A	C
ATOM	972	O	THR	A	238	178.214	160.829	4.307	1.00	14.27	A	O
ATOM	973	N	GLU	A	239	179.649	160.149	5.888	1.00	11.63	A	N

ATOM	974	CA	GLU A	239	179.285	161.242	6.781	1.00	13.23	A	C
ATOM	975	CB	GLU A	239	179.913	161.025	8.170	1.00	14.00	A	C
ATOM	976	CG	GLU A	239	179.443	159.721	8.804	1.00	18.38	A	C
ATOM	977	CD	GLU A	239	180.121	159.365	10.124	1.00	24.00	A	C
ATOM	978	OE1	GLU A	239	181.366	159.259	10.187	1.00	24.67	A	O
ATOM	979	OE2	GLU A	239	179.385	159.158	11.114	1.00	32.52	A	O
ATOM	980	C	GLU A	239	179.767	162.548	6.149	1.00	13.27	A	C
ATOM	981	O	GLU A	239	179.028	163.525	6.073	1.00	12.45	A	O
ATOM	982	N	LEU A	240	181.005	162.538	5.668	1.00	11.05	A	N
ATOM	983	CA	LEU A	240	181.566	163.707	5.049	1.00	13.29	A	C
ATOM	984	CB	LEU A	240	183.043	163.465	4.738	1.00	15.79	A	C
ATOM	985	CG	LEU A	240	183.894	164.638	4.235	1.00	16.19	A	C
ATOM	986	CD1	LEU A	240	184.031	165.720	5.279	1.00	19.17	A	C
ATOM	987	CD2	LEU A	240	185.267	164.108	3.884	1.00	19.04	A	C
ATOM	988	C	LEU A	240	180.798	164.081	3.773	1.00	13.39	A	C
ATOM	989	O	LEU A	240	180.513	165.256	3.548	1.00	14.19	A	O
ATOM	990	N	ALA A	241	180.443	163.091	2.955	1.00	11.67	A	N
ATOM	991	CA	ALA A	241	179.726	163.372	1.711	1.00	12.50	A	C
ATOM	992	CB	ALA A	241	179.577	162.108	0.873	1.00	9.22	A	C
ATOM	993	C	ALA A	241	178.367	164.004	1.979	1.00	14.45	A	C
ATOM	994	O	ALA A	241	177.923	164.878	1.222	1.00	14.36	A	O
ATOM	995	N	ASN A	242	177.714	163.562	3.053	1.00	14.82	A	N
ATOM	996	CA	ASN A	242	176.420	164.109	3.447	1.00	16.37	A	C
ATOM	997	CB	ASN A	242	175.822	163.329	4.619	1.00	20.05	A	C
ATOM	998	CG	ASN A	242	175.213	162.005	4.210	1.00	22.16	A	C
ATOM	999	OD1	ASN A	242	175.027	161.133	5.055	1.00	23.63	A	O
ATOM	1000	ND2	ASN A	242	174.883	161.850	2.922	1.00	24.84	A	N
ATOM	1001	C	ASN A	242	176.623	165.540	3.918	1.00	16.87	A	C
ATOM	1002	O	ASN A	242	175.804	166.429	3.636	1.00	13.50	A	O
ATOM	1003	N	ALA A	243	177.713	165.747	4.656	1.00	13.07	A	N
ATOM	1004	CA	ALA A	243	178.019	167.065	5.190	1.00	13.28	A	C
ATOM	1005	CB	ALA A	243	179.204	166.982	6.137	1.00	13.95	A	C
ATOM	1006	C	ALA A	243	178.292	168.063	4.072	1.00	14.76	A	C
ATOM	1007	O	ALA A	243	177.751	169.173	4.080	1.00	11.54	A	O
ATOM	1008	N	LEU A	244	179.126	167.651	3.113	1.00	15.34	A	N
ATOM	1009	CA	LEU A	244	179.487	168.477	1.955	1.00	14.00	A	C
ATOM	1010	CB	LEU A	244	180.572	167.766	1.134	1.00	12.82	A	C
ATOM	1011	CG	LEU A	244	181.958	167.607	1.791	1.00	13.66	A	C
ATOM	1012	CD1	LEU A	244	182.862	166.784	0.883	1.00	10.60	A	C
ATOM	1013	CD2	LEU A	244	182.570	168.990	2.068	1.00	10.59	A	C
ATOM	1014	C	LEU A	244	178.245	168.764	1.078	1.00	13.84	A	C
ATOM	1015	O	LEU A	244	178.079	169.862	0.545	1.00	9.94	A	O
ATOM	1016	N	SER A	245	177.363	167.776	0.949	1.00	11.65	A	N
ATOM	1017	CA	SER A	245	176.162	167.951	0.149	1.00	12.45	A	C
ATOM	1018	CB	SER A	245	175.403	166.623	0.101	1.00	11.63	A	C
ATOM	1019	OG	SER A	245	174.265	166.724	-0.729	1.00	18.58	A	O
ATOM	1020	C	SER A	245	175.284	169.090	0.716	1.00	12.58	A	C
ATOM	1021	O	SER A	245	174.753	169.925	-0.028	1.00	13.38	A	O
ATOM	1022	N	TYR A	246	175.156	169.126	2.038	1.00	10.82	A	N
ATOM	1023	CA	TYR A	246	174.388	170.146	2.719	1.00	12.87	A	C
ATOM	1024	CB	TYR A	246	174.337	169.838	4.232	1.00	10.92	A	C
ATOM	1025	CG	TYR A	246	173.941	171.010	5.076	1.00	13.12	A	C
ATOM	1026	CD1	TYR A	246	172.615	171.398	5.169	1.00	11.79	A	C
ATOM	1027	CE1	TYR A	246	172.249	172.526	5.886	1.00	15.75	A	C
ATOM	1028	CD2	TYR A	246	174.905	171.782	5.727	1.00	14.34	A	C
ATOM	1029	CE2	TYR A	246	174.548	172.925	6.452	1.00	17.65	A	C
ATOM	1030	CZ	TYR A	246	173.209	173.288	6.526	1.00	18.09	A	C
ATOM	1031	OH	TYR A	246	172.806	174.411	7.231	1.00	20.69	A	O
ATOM	1032	C	TYR A	246	175.068	171.506	2.474	1.00	14.69	A	C
ATOM	1033	O	TYR A	246	174.399	172.522	2.263	1.00	16.54	A	O
ATOM	1034	N	CYS A	247	176.398	171.506	2.526	1.00	12.79	A	N
ATOM	1035	CA	CYS A	247	177.217	172.695	2.312	1.00	15.14	A	C
ATOM	1036	CB	CYS A	247	178.697	172.339	2.453	1.00	18.30	A	C
ATOM	1037	SG	CYS A	247	179.389	172.397	4.097	1.00	20.02	A	S
ATOM	1038	C	CYS A	247	177.033	173.298	0.930	1.00	14.64	A	C
ATOM	1039	O	CYS A	247	176.944	174.517	0.765	1.00	13.32	A	O
ATOM	1040	N	HIS A	248	177.018	172.424	-0.063	1.00	12.96	A	N
ATOM	1041	CA	HIS A	248	176.867	172.853	-1.435	1.00	14.92	A	C
ATOM	1042	CB	HIS A	248	177.246	171.711	-2.361	1.00	14.58	A	C
ATOM	1043	CG	HIS A	248	178.698	171.388	-2.305	1.00	15.75	A	C

ATOM	1044	CD2	HIS	A	248	179.651	171.777	-1.427	1.00	14.69	A	C
ATOM	1045	ND1	HIS	A	248	179.331	170.596	-3.236	1.00	18.18	A	N
ATOM	1046	CE1	HIS	A	248	180.614	170.512	-2.934	1.00	15.22	A	C
ATOM	1047	NE2	HIS	A	248	180.832	171.220	-1.840	1.00	14.77	A	N
ATOM	1048	C	HIS	A	248	175.474	173.338	-1.717	1.00	16.00	A	C
ATOM	1049	O	HIS	A	248	175.285	174.228	-2.538	1.00	16.44	A	O
ATOM	1050	N	SER	A	249	174.503	172.744	-1.028	1.00	14.49	A	N
ATOM	1051	CA	SER	A	249	173.125	173.148	-1.197	1.00	15.32	A	C
ATOM	1052	CB	SER	A	249	172.201	172.233	-0.392	1.00	11.40	A	C
ATOM	1053	OG	SER	A	249	172.281	172.527	0.985	1.00	16.48	A	O
ATOM	1054	C	SER	A	249	173.055	174.597	-0.696	1.00	16.09	A	C
ATOM	1055	O	SER	A	249	172.139	175.350	-1.034	1.00	18.04	A	O
ATOM	1056	N	LYS	A	250	174.031	174.988	0.118	1.00	15.99	A	N
ATOM	1057	CA	LYS	A	250	174.072	176.363	0.599	1.00	15.13	A	C
ATOM	1058	CB	LYS	A	250	174.405	176.441	2.107	1.00	13.57	A	C
ATOM	1059	CG	LYS	A	250	173.350	175.850	3.040	1.00	15.19	A	C
ATOM	1060	CD	LYS	A	250	171.930	176.203	2.629	1.00	19.05	A	C
ATOM	1061	CE	LYS	A	250	170.943	175.150	3.131	1.00	24.43	A	C
ATOM	1062	NZ	LYS	A	250	169.492	175.372	2.776	1.00	28.76	A	N
ATOM	1063	C	LYS	A	250	175.106	177.133	-0.210	1.00	11.97	A	C
ATOM	1064	O	LYS	A	250	175.375	178.286	0.057	1.00	14.99	A	O
ATOM	1065	N	ARG	A	251	175.686	176.478	-1.208	1.00	14.14	A	N
ATOM	1066	CA	ARG	A	251	176.690	177.099	-2.079	1.00	13.45	A	C
ATOM	1067	CB	ARG	A	251	176.080	178.305	-2.792	1.00	14.05	A	C
ATOM	1068	CG	ARG	A	251	174.976	177.936	-3.779	1.00	21.06	A	C
ATOM	1069	CD	ARG	A	251	175.441	178.112	-5.227	1.00	27.95	A	C
ATOM	1070	NE	ARG	A	251	175.547	176.844	-5.943	1.00	31.22	A	N
ATOM	1071	CZ	ARG	A	251	176.391	176.615	-6.949	1.00	31.35	A	C
ATOM	1072	NH1	ARG	A	251	177.214	177.570	-7.368	1.00	28.63	A	N
ATOM	1073	NH2	ARG	A	251	176.427	175.422	-7.526	1.00	31.96	A	N
ATOM	1074	C	ARG	A	251	177.974	177.493	-1.362	1.00	12.30	A	C
ATOM	1075	O	ARG	A	251	178.618	178.472	-1.703	1.00	12.69	A	O
ATOM	1076	N	VAL	A	252	178.344	176.714	-0.363	1.00	11.12	A	N
ATOM	1077	CA	VAL	A	252	179.569	176.971	0.368	1.00	12.45	A	C
ATOM	1078	CB	VAL	A	252	179.338	176.810	1.885	1.00	12.23	A	C
ATOM	1079	CG1	VAL	A	252	180.651	176.509	2.587	1.00	9.08	A	C
ATOM	1080	CG2	VAL	A	252	178.681	178.059	2.446	1.00	10.54	A	C
ATOM	1081	C	VAL	A	252	180.604	175.940	-0.083	1.00	15.27	A	C
ATOM	1082	O	VAL	A	252	180.267	174.774	-0.265	1.00	12.78	A	O
ATOM	1083	N	ILE	A	253	181.840	176.373	-0.326	1.00	13.72	A	N
ATOM	1084	CA	ILE	A	253	182.872	175.419	-0.680	1.00	10.89	A	C
ATOM	1085	CB	ILE	A	253	183.670	175.788	-1.957	1.00	11.67	A	C
ATOM	1086	CG2	ILE	A	253	184.426	174.535	-2.441	1.00	5.83	A	C
ATOM	1087	CG1	ILE	A	253	182.733	176.323	-3.059	1.00	10.28	A	C
ATOM	1088	CD1	ILE	A	253	183.439	176.812	-4.329	1.00	3.57	A	C
ATOM	1089	C	ILE	A	253	183.831	175.453	0.498	1.00	13.01	A	C
ATOM	1090	O	ILE	A	253	184.347	176.524	0.849	1.00	13.11	A	O
ATOM	1091	N	HIS	A	254	184.050	174.288	1.113	1.00	13.19	A	N
ATOM	1092	CA	HIS	A	254	184.943	174.161	2.259	1.00	12.95	A	C
ATOM	1093	CB	HIS	A	254	184.868	172.745	2.843	1.00	12.70	A	C
ATOM	1094	CG	HIS	A	254	185.587	172.606	4.160	1.00	12.92	A	C
ATOM	1095	CD2	HIS	A	254	185.206	172.914	5.423	1.00	9.91	A	C
ATOM	1096	ND1	HIS	A	254	186.898	172.180	4.257	1.00	13.73	A	N
ATOM	1097	CE1	HIS	A	254	187.290	172.229	5.515	1.00	10.14	A	C
ATOM	1098	NE2	HIS	A	254	186.282	172.671	6.243	1.00	11.29	A	N
ATOM	1099	C	HIS	A	254	186.383	174.507	1.889	1.00	13.04	A	C
ATOM	1100	O	HIS	A	254	186.971	175.438	2.447	1.00	14.41	A	O
ATOM	1101	N	ARG	A	255	186.935	173.743	0.953	1.00	12.07	A	N
ATOM	1102	CA	ARG	A	255	188.291	173.910	0.438	1.00	12.35	A	C
ATOM	1103	CB	ARG	A	255	188.494	175.341	-0.050	1.00	13.05	A	C
ATOM	1104	CG	ARG	A	255	187.553	175.664	-1.200	1.00	15.96	A	C
ATOM	1105	CD	ARG	A	255	187.942	176.885	-1.997	1.00	11.42	A	C
ATOM	1106	NE	ARG	A	255	188.045	178.075	-1.183	1.00	13.42	A	N
ATOM	1107	CZ	ARG	A	255	188.194	179.295	-1.690	1.00	17.97	A	C
ATOM	1108	NH1	ARG	A	255	188.248	179.453	-3.012	1.00	12.59	A	N
ATOM	1109	NH2	ARG	A	255	188.308	180.348	-0.880	1.00	11.08	A	N
ATOM	1110	C	ARG	A	255	189.479	173.491	1.328	1.00	14.82	A	C
ATOM	1111	O	ARG	A	255	190.628	173.656	0.914	1.00	16.45	A	O
ATOM	1112	N	ASP	A	256	189.237	172.959	2.528	1.00	13.90	A	N
ATOM	1113	CA	ASP	A	256	190.355	172.522	3.364	1.00	14.13	A	C

ATOM	1114	CB	ASP A	256	190.779	173.631	4.341	1.00	15.61	A	C
ATOM	1115	CG	ASP A	256	192.185	173.408	4.930	1.00	17.71	A	C
ATOM	1116	OD1	ASP A	256	193.119	172.950	4.217	1.00	18.23	A	O
ATOM	1117	OD2	ASP A	256	192.364	173.712	6.130	1.00	20.01	A	O
ATOM	1118	C	ASP A	256	190.021	171.231	4.094	1.00	14.83	A	C
ATOM	1119	O	ASP A	256	190.209	171.088	5.300	1.00	17.90	A	O
ATOM	1120	N	ILE A	257	189.522	170.285	3.321	1.00	14.83	A	N
ATOM	1121	CA	ILE A	257	189.170	168.978	3.809	1.00	15.89	A	C
ATOM	1122	CB	ILE A	257	188.209	168.318	2.821	1.00	16.68	A	C
ATOM	1123	CG2	ILE A	257	188.096	166.834	3.106	1.00	18.21	A	C
ATOM	1124	CG1	ILE A	257	186.851	169.010	2.909	1.00	19.11	A	C
ATOM	1125	CD1	ILE A	257	185.939	168.636	1.771	1.00	26.98	A	C
ATOM	1126	C	ILE A	257	190.461	168.170	3.888	1.00	16.84	A	C
ATOM	1127	O	ILE A	257	191.180	168.019	2.890	1.00	19.23	A	O
ATOM	1128	N	LYS A	258	190.759	167.673	5.079	1.00	14.42	A	N
ATOM	1129	CA	LYS A	258	191.948	166.861	5.321	1.00	13.61	A	C
ATOM	1130	CB	LYS A	258	193.218	167.696	5.165	1.00	11.12	A	C
ATOM	1131	CG	LYS A	258	193.288	168.912	6.021	1.00	10.35	A	C
ATOM	1132	CD	LYS A	258	194.685	169.397	5.941	1.00	11.98	A	C
ATOM	1133	CE	LYS A	258	194.946	170.539	6.844	1.00	10.31	A	C
ATOM	1134	NZ	LYS A	258	196.316	171.028	6.523	1.00	13.12	A	N
ATOM	1135	C	LYS A	258	191.828	166.275	6.728	1.00	12.82	A	C
ATOM	1136	O	LYS A	258	191.093	166.807	7.565	1.00	12.94	A	O
ATOM	1137	N	PRO A	259	192.547	165.180	7.011	1.00	13.48	A	N
ATOM	1138	CD	PRO A	259	193.607	164.582	6.181	1.00	11.93	A	C
ATOM	1139	CA	PRO A	259	192.487	164.525	8.329	1.00	14.07	A	C
ATOM	1140	CB	PRO A	259	193.641	163.517	8.267	1.00	14.89	A	C
ATOM	1141	CG	PRO A	259	193.714	163.197	6.778	1.00	14.98	A	C
ATOM	1142	C	PRO A	259	192.527	165.413	9.583	1.00	15.36	A	C
ATOM	1143	O	PRO A	259	191.773	165.171	10.520	1.00	15.88	A	O
ATOM	1144	N	GLU A	260	193.388	166.428	9.593	1.00	15.22	A	N
ATOM	1145	CA	GLU A	260	193.516	167.340	10.734	1.00	19.96	A	C
ATOM	1146	CB	GLU A	260	194.770	168.225	10.563	1.00	22.41	A	C
ATOM	1147	CG	GLU A	260	196.090	167.457	10.516	1.00	29.11	A	C
ATOM	1148	CD	GLU A	260	196.610	167.140	9.092	1.00	32.88	A	C
ATOM	1149	OE1	GLU A	260	195.826	166.656	8.235	1.00	33.12	A	O
ATOM	1150	OE2	GLU A	260	197.823	167.360	8.841	1.00	35.49	A	O
ATOM	1151	C	GLU A	260	192.280	168.252	10.924	1.00	18.80	A	C
ATOM	1152	O	GLU A	260	192.140	168.905	11.957	1.00	18.71	A	O
ATOM	1153	N	ASN A	261	191.401	168.309	9.922	1.00	16.14	A	N
ATOM	1154	CA	ASN A	261	190.206	169.139	10.014	1.00	14.12	A	C
ATOM	1155	CB	ASN A	261	190.084	170.036	8.799	1.00	12.74	A	C
ATOM	1156	CG	ASN A	261	191.068	171.176	8.824	1.00	12.37	A	C
ATOM	1157	OD1	ASN A	261	191.719	171.446	9.840	1.00	11.65	A	O
ATOM	1158	ND2	ASN A	261	191.178	171.868	7.705	1.00	11.18	A	C
ATOM	1159	C	ASN A	261	188.944	168.329	10.159	1.00	14.87	A	C
ATOM	1160	O	ASN A	261	187.844	168.855	10.027	1.00	14.12	A	O
ATOM	1161	N	LEU A	262	189.117	167.037	10.428	1.00	16.20	A	N
ATOM	1162	CA	LEU A	262	187.996	166.127	10.596	1.00	13.58	A	C
ATOM	1163	CB	LEU A	262	188.128	164.954	9.627	1.00	13.22	A	C
ATOM	1164	CG	LEU A	262	188.164	165.406	8.162	1.00	15.01	A	C
ATOM	1165	CD1	LEU A	262	188.502	164.230	7.232	1.00	8.10	A	C
ATOM	1166	CD2	LEU A	262	186.807	166.049	7.834	1.00	10.56	A	C
ATOM	1167	C	LEU A	262	188.027	165.633	12.031	1.00	15.43	A	C
ATOM	1168	O	LEU A	262	188.999	165.008	12.459	1.00	17.59	A	O
ATOM	1169	N	LEU A	263	186.968	165.915	12.777	1.00	11.89	A	N
ATOM	1170	CA	LEU A	263	186.926	165.505	14.154	1.00	10.46	A	C
ATOM	1171	CB	LEU A	263	186.657	166.725	15.005	1.00	13.46	A	C
ATOM	1172	CG	LEU A	263	187.584	167.921	14.699	1.00	14.28	A	C
ATOM	1173	CD1	LEU A	263	187.208	169.055	15.634	1.00	15.02	A	C
ATOM	1174	CD2	LEU A	263	189.050	167.563	14.865	1.00	12.28	A	C
ATOM	1175	C	LEU A	263	185.905	164.407	14.409	1.00	12.75	A	C
ATOM	1176	O	LEU A	263	185.068	164.112	13.553	1.00	13.83	A	O
ATOM	1177	N	LEU A	264	185.989	163.780	15.576	1.00	13.44	A	N
ATOM	1178	CA	LEU A	264	185.076	162.693	15.919	1.00	15.08	A	C
ATOM	1179	CB	LEU A	264	185.856	161.421	16.298	1.00	15.27	A	C
ATOM	1180	CG	LEU A	264	186.808	160.821	15.263	1.00	16.94	A	C
ATOM	1181	CD1	LEU A	264	187.393	159.499	15.783	1.00	20.04	A	C
ATOM	1182	CD2	LEU A	264	186.043	160.590	13.944	1.00	16.69	A	C
ATOM	1183	C	LEU A	264	184.190	163.103	17.078	1.00	14.83	A	C

ATOM	1184	O	LEU	A	264	184.669	163.613	18.096	1.00	13.07	A	O
ATOM	1185	N	GLY	A	265	182.890	162.881	16.907	1.00	14.85	A	N
ATOM	1186	CA	GLY	A	265	181.943	163.218	17.947	1.00	15.69	A	C
ATOM	1187	C	GLY	A	265	181.844	162.127	18.999	1.00	17.48	A	C
ATOM	1188	O	GLY	A	265	182.597	161.144	18.989	1.00	19.40	A	O
ATOM	1189	N	SER	A	266	180.888	162.306	19.899	1.00	17.64	A	N
ATOM	1190	CA	SER	A	266	180.641	161.398	21.007	1.00	18.83	A	C
ATOM	1191	CB	SER	A	266	179.417	161.895	21.766	1.00	17.49	A	C
ATOM	1192	OG	SER	A	266	179.347	161.294	23.037	1.00	31.06	A	O
ATOM	1193	C	SER	A	266	180.457	159.923	20.615	1.00	16.59	A	C
ATOM	1194	O	SER	A	266	180.771	159.025	21.389	1.00	16.64	A	O
ATOM	1195	N	ALA	A	267	179.960	159.675	19.412	1.00	15.97	A	N
ATOM	1196	CA	ALA	A	267	179.731	158.314	18.939	1.00	17.67	A	C
ATOM	1197	CB	ALA	A	267	178.288	158.163	18.456	1.00	14.65	A	C
ATOM	1198	C	ALA	A	267	180.670	157.930	17.815	1.00	18.92	A	C
ATOM	1199	O	ALA	A	267	180.353	157.040	17.025	1.00	21.00	A	O
ATOM	1200	N	GLY	A	268	181.812	158.604	17.716	1.00	21.24	A	N
ATOM	1201	CA	GLY	A	268	182.741	158.278	16.648	1.00	22.38	A	C
ATOM	1202	C	GLY	A	268	182.289	158.773	15.282	1.00	21.15	A	C
ATOM	1203	O	GLY	A	268	182.809	158.323	14.266	1.00	20.78	A	O
ATOM	1204	N	GLU	A	269	181.324	159.690	15.249	1.00	19.71	A	N
ATOM	1205	CA	GLU	A	269	180.831	160.239	13.983	1.00	18.83	A	C
ATOM	1206	CB	GLU	A	269	179.386	160.746	14.107	1.00	20.11	A	C
ATOM	1207	CG	GLU	A	269	179.239	162.020	14.944	1.00	27.28	A	C
ATOM	1208	CD	GLU	A	269	178.874	161.722	16.385	1.00	29.04	A	C
ATOM	1209	OE1	GLU	A	269	179.762	161.324	17.177	1.00	30.97	A	O
ATOM	1210	OE2	GLU	A	269	177.677	161.868	16.711	1.00	33.63	A	O
ATOM	1211	C	GLU	A	269	181.702	161.409	13.549	1.00	17.27	A	C
ATOM	1212	O	GLU	A	269	182.088	162.249	14.368	1.00	15.38	A	O
ATOM	1213	N	LEU	A	270	181.994	161.461	12.253	1.00	14.97	A	N
ATOM	1214	CA	LEU	A	270	182.822	162.515	11.689	1.00	15.39	A	C
ATOM	1215	CB	LEU	A	270	183.169	162.167	10.229	1.00	21.78	A	C
ATOM	1216	CG	LEU	A	270	184.100	163.071	9.408	1.00	22.18	A	C
ATOM	1217	CD1	LEU	A	270	185.484	162.839	9.938	1.00	26.73	A	C
ATOM	1218	CD2	LEU	A	270	184.109	162.725	7.944	1.00	27.39	A	C
ATOM	1219	C	LEU	A	270	182.129	163.876	11.722	1.00	13.13	A	C
ATOM	1220	O	LEU	A	270	180.932	163.973	11.490	1.00	12.45	A	O
ATOM	1221	N	LYS	A	271	182.895	164.918	12.027	1.00	13.69	A	N
ATOM	1222	CA	LYS	A	271	182.395	166.296	12.025	1.00	13.80	A	C
ATOM	1223	CB	LYS	A	271	182.201	166.814	13.450	1.00	13.22	A	C
ATOM	1224	CG	LYS	A	271	180.846	166.378	14.025	1.00	16.86	A	C
ATOM	1225	CD	LYS	A	271	180.790	166.428	15.509	1.00	17.04	A	C
ATOM	1226	CE	LYS	A	271	179.494	165.823	15.967	1.00	15.79	A	C
ATOM	1227	NZ	LYS	A	271	178.379	166.692	15.545	1.00	20.81	A	N
ATOM	1228	C	LYS	A	271	183.392	167.151	11.270	1.00	15.22	A	C
ATOM	1229	O	LYS	A	271	184.586	167.152	11.582	1.00	16.95	A	C
ATOM	1230	N	ILE	A	272	182.919	167.842	10.238	1.00	15.55	A	O
ATOM	1231	CA	ILE	A	272	183.803	168.702	9.462	1.00	15.61	A	C
ATOM	1232	CB	ILE	A	272	183.143	169.220	8.163	1.00	19.61	A	C
ATOM	1233	CG2	ILE	A	272	184.054	170.269	7.530	1.00	18.20	A	C
ATOM	1234	CG1	ILE	A	272	182.850	168.069	7.203	1.00	22.81	A	C
ATOM	1235	CD1	ILE	A	272	182.068	168.504	5.967	1.00	25.62	A	C
ATOM	1236	C	ILE	A	272	184.051	169.926	10.303	1.00	13.27	A	C
ATOM	1237	O	ILE	A	272	183.136	170.422	10.945	1.00	12.04	A	O
ATOM	1238	N	ALA	A	273	185.270	170.428	10.294	1.00	11.17	A	N
ATOM	1239	CA	ALA	A	273	185.568	171.623	11.069	1.00	13.73	A	C
ATOM	1240	CB	ALA	A	273	186.266	171.248	12.376	1.00	10.14	A	C
ATOM	1241	C	ALA	A	273	186.472	172.498	10.225	1.00	16.38	A	C
ATOM	1242	O	ALA	A	273	186.688	172.208	9.047	1.00	16.96	A	O
ATOM	1243	N	ASP	A	274	186.986	173.568	10.834	1.00	17.04	A	N
ATOM	1244	CA	ASP	A	274	187.913	174.500	10.200	1.00	15.18	A	C
ATOM	1245	CB	ASP	A	274	189.288	173.805	10.074	1.00	17.02	A	C
ATOM	1246	CG	ASP	A	274	190.447	174.786	9.800	1.00	19.27	A	C
ATOM	1247	OD1	ASP	A	274	190.190	175.999	9.635	1.00	22.45	A	O
ATOM	1248	OD2	ASP	A	274	191.624	174.338	9.753	1.00	17.87	A	O
ATOM	1249	C	ASP	A	274	187.434	175.064	8.838	1.00	16.14	A	C
ATOM	1250	O	ASP	A	274	187.846	174.604	7.776	1.00	12.68	A	C
ATOM	1251	N	PHE	A	275	186.559	176.065	8.881	1.00	15.86	A	N
ATOM	1252	CA	PHE	A	275	186.074	176.688	7.666	1.00	14.12	A	C
ATOM	1253	CB	PHE	A	275	184.602	177.108	7.835	1.00	13.16	A	C

ATOM	1254	CG	PHE A 275	183.640	175.948	7.721	1.00	12.72	A	C
ATOM	1255	CD1	PHE A 275	183.540	174.994	8.746	1.00	11.42	A	C
ATOM	1256	CD2	PHE A 275	182.936	175.727	6.535	1.00	11.44	A	C
ATOM	1257	CE1	PHE A 275	182.768	173.843	8.581	1.00	10.04	A	C
ATOM	1258	CE2	PHE A 275	182.157	174.568	6.367	1.00	12.57	A	C
ATOM	1259	CZ	PHE A 275	182.079	173.631	7.396	1.00	11.15	A	C
ATOM	1260	C	PHE A 275	186.966	177.868	7.289	1.00	15.87	A	C
ATOM	1261	O	PHE A 275	186.541	178.780	6.568	1.00	15.07	A	O
ATOM	1262	N	GLY A 276	188.221	177.820	7.751	1.00	15.09	A	N
ATOM	1263	CA	GLY A 276	189.184	178.875	7.452	1.00	17.20	A	C
ATOM	1264	C	GLY A 276	189.322	179.285	5.983	1.00	16.44	A	C
ATOM	1265	O	GLY A 276	189.368	180.482	5.665	1.00	17.13	A	O
ATOM	1266	N	TRP A 277	189.378	178.307	5.082	1.00	13.73	A	N
ATOM	1267	CA	TRP A 277	189.514	178.596	3.664	1.00	14.40	A	C
ATOM	1268	CB	TRP A 277	190.568	177.667	3.071	1.00	20.13	A	C
ATOM	1269	CG	TRP A 277	191.860	177.753	3.789	1.00	22.40	A	C
ATOM	1270	CD2	TRP A 277	192.691	178.904	3.893	1.00	23.73	A	C
ATOM	1271	CE2	TRP A 277	193.788	178.558	4.701	1.00	26.05	A	C
ATOM	1272	CE3	TRP A 277	192.617	180.198	3.375	1.00	25.94	A	C
ATOM	1273	CD1	TRP A 277	192.463	176.777	4.517	1.00	23.25	A	C
ATOM	1274	NE1	TRP A 277	193.625	177.250	5.074	1.00	24.53	A	N
ATOM	1275	CZ2	TRP A 277	194.806	179.467	5.015	1.00	27.86	A	C
ATOM	1276	CZ3	TRP A 277	193.631	181.106	3.686	1.00	28.74	A	C
ATOM	1277	CH2	TRP A 277	194.711	180.733	4.496	1.00	26.68	A	C
ATOM	1278	C	TRP A 277	188.202	178.467	2.888	1.00	13.46	A	C
ATOM	1279	O	TRP A 277	188.190	178.362	1.664	1.00	14.44	A	O
ATOM	1280	N	SER A 278	187.097	178.481	3.605	1.00	14.67	A	N
ATOM	1281	CA	SER A 278	185.809	178.360	2.973	1.00	16.81	A	C
ATOM	1282	CB	SER A 278	184.785	177.937	4.009	1.00	18.65	A	C
ATOM	1283	OG	SER A 278	185.042	176.588	4.334	1.00	31.56	A	O
ATOM	1284	C	SER A 278	185.338	179.620	2.269	1.00	15.59	A	C
ATOM	1285	O	SER A 278	185.887	180.700	2.456	1.00	13.40	A	O
ATOM	1286	N	VAL A 279	184.330	179.468	1.427	1.00	12.47	A	N
ATOM	1287	CA	VAL A 279	183.790	180.622	0.750	1.00	15.04	A	C
ATOM	1288	CB	VAL A 279	184.631	181.010	-0.524	1.00	14.76	A	C
ATOM	1289	CG1	VAL A 279	184.436	179.985	-1.646	1.00	10.49	A	C
ATOM	1290	CG2	VAL A 279	184.256	182.419	-0.971	1.00	9.51	A	C
ATOM	1291	C	VAL A 279	182.347	180.399	0.352	1.00	15.66	A	C
ATOM	1292	O	VAL A 279	181.902	179.259	0.162	1.00	16.74	A	O
ATOM	1293	N	HIS A 280	181.604	181.491	0.276	1.00	14.84	A	N
ATOM	1294	CA	HIS A 280	180.224	181.389	-0.133	1.00	17.48	A	C
ATOM	1295	CB	HIS A 280	179.332	182.330	0.694	1.00	14.36	A	C
ATOM	1296	CG	HIS A 280	177.885	182.230	0.336	1.00	16.95	A	C
ATOM	1297	CD2	HIS A 280	177.154	181.176	-0.102	1.00	16.10	A	C
ATOM	1298	ND1	HIS A 280	177.045	183.323	0.300	1.00	15.76	A	N
ATOM	1299	CE1	HIS A 280	175.864	182.946	-0.154	1.00	17.22	A	C
ATOM	1300	NE2	HIS A 280	175.903	181.648	-0.407	1.00	18.56	A	N
ATOM	1301	C	HIS A 280	180.236	181.772	-1.622	1.00	17.74	A	C
ATOM	1302	O	HIS A 280	180.439	182.942	-1.989	1.00	16.22	A	O
ATOM	1303	N	ALA A 281	180.048	180.773	-2.480	1.00	15.79	A	N
ATOM	1304	CA	ALA A 281	180.066	180.984	-3.930	1.00	17.35	A	C
ATOM	1305	CB	ALA A 281	181.103	180.047	-4.565	1.00	15.43	A	C
ATOM	1306	C	ALA A 281	178.693	180.779	-4.610	1.00	18.31	A	C
ATOM	1307	O	ALA A 281	178.489	179.809	-5.311	1.00	18.09	A	O
ATOM	1308	N	PRO A 282	177.754	181.726	-4.412	1.00	20.27	A	N
ATOM	1309	CD	PRO A 282	177.983	182.946	-3.597	1.00	20.44	A	C
ATOM	1310	CA	PRO A 282	176.381	181.701	-4.974	1.00	21.92	A	C
ATOM	1311	CB	PRO A 282	175.770	183.032	-4.483	1.00	21.47	A	C
ATOM	1312	CG	PRO A 282	176.575	183.413	-3.327	1.00	21.85	A	C
ATOM	1313	C	PRO A 282	176.326	181.581	-6.480	1.00	22.24	A	C
ATOM	1314	O	PRO A 282	175.611	180.729	-6.987	1.00	24.89	A	O
ATOM	1315	N	SER A 283	177.088	182.439	-7.163	1.00	24.90	A	N
ATOM	1316	CA	SER A 283	177.131	182.464	-8.629	1.00	28.30	A	C
ATOM	1317	CB	SER A 283	176.711	183.837	-9.202	1.00	26.31	A	C
ATOM	1318	OG	SER A 283	175.659	184.461	-8.492	1.00	30.72	A	O
ATOM	1319	C	SER A 283	178.454	182.133	-9.327	1.00	27.14	A	C
ATOM	1320	O	SER A 283	178.563	181.133	-10.033	1.00	31.35	A	O
ATOM	1321	N	SER A 284	179.434	183.011	-9.147	1.00	25.92	A	N
ATOM	1322	CA	SER A 284	180.749	182.937	-9.789	1.00	26.41	A	C
ATOM	1323	CB	SER A 284	181.476	184.252	-9.583	1.00	26.11	A	C

ATOM	1324	OG	SER A	284	180.590	185.288	-9.231	1.00	32.06	A	O
ATOM	1325	C	SER A	284	181.720	181.869	-9.346	1.00	24.70	A	C
ATOM	1326	O	SER A	284	181.617	181.347	-8.254	1.00	26.06	A	O
ATOM	1327	N	ARG A	285	182.717	181.636	-10.192	1.00	23.60	A	N
ATOM	1328	CA	ARG A	285	183.782	180.701	-9.910	1.00	25.00	A	C
ATOM	1329	CB	ARG A	285	184.337	180.169	-11.225	1.00	25.95	A	C
ATOM	1330	CG	ARG A	285	183.367	179.201	-11.935	1.00	31.00	A	C
ATOM	1331	CD	ARG A	285	184.154	178.152	-12.746	1.00	38.12	A	C
ATOM	1332	NE	ARG A	285	184.419	178.543	-14.135	1.00	42.96	A	N
ATOM	1333	CZ	ARG A	285	185.202	177.856	-14.971	1.00	45.91	A	C
ATOM	1334	NH1	ARG A	285	185.808	176.744	-14.560	1.00	46.53	A	N
ATOM	1335	NH2	ARG A	285	185.364	178.267	-16.225	1.00	46.52	A	N
ATOM	1336	C	ARG A	285	184.869	181.436	-9.074	1.00	23.19	A	C
ATOM	1337	O	ARG A	285	184.791	182.652	-8.873	1.00	23.63	A	O
ATOM	1338	N	ARG A	286	185.871	180.720	-8.578	1.00	22.25	A	N
ATOM	1339	CA	ARG A	286	186.898	181.369	-7.770	1.00	18.11	A	C
ATOM	1340	CB	ARG A	286	186.781	180.826	-6.344	1.00	16.41	A	C
ATOM	1341	CG	ARG A	286	185.467	181.252	-5.671	1.00	17.03	A	C
ATOM	1342	CD	ARG A	286	185.642	182.655	-5.179	1.00	16.99	A	C
ATOM	1343	NE	ARG A	286	184.443	183.221	-4.632	1.00	25.38	A	N
ATOM	1344	CZ	ARG A	286	184.398	184.417	-4.072	1.00	26.94	A	C
ATOM	1345	NH1	ARG A	286	185.509	185.138	-3.995	1.00	28.48	A	N
ATOM	1346	NH2	ARG A	286	183.244	184.894	-3.605	1.00	30.62	A	N
ATOM	1347	C	ARG A	286	188.309	181.189	-8.339	1.00	19.47	A	C
ATOM	1348	O	ARG A	286	188.537	180.305	-9.174	1.00	17.62	A	O
ATOM	1349	N	TPO A	287	189.226	182.041	-7.916	1.00	21.77	A	N
ATOM	1350	CA	TPO A	287	190.558	181.974	-8.377	1.00	21.28	A	C
ATOM	1351	CB	TPO A	287	190.775	183.306	-9.113	1.00	25.22	A	C
ATOM	1352	CG2	TPO A	287	189.942	183.372	-10.421	1.00	22.17	A	C
ATOM	1353	OG1	TPO A	287	190.484	184.557	-8.448	1.00	33.29	A	O
ATOM	1354	P	TPO A	287	191.582	185.763	-8.444	1.00	33.70	A	P
ATOM	1355	O1P	TPO A	287	190.902	186.991	-9.195	1.00	41.17	A	O
ATOM	1356	O2P	TPO A	287	192.847	185.199	-9.239	1.00	37.62	A	O
ATOM	1357	O3P	TPO A	287	191.990	186.067	-6.912	1.00	41.70	A	O
ATOM	1358	C	TPO A	287	191.612	181.717	-7.265	1.00	16.99	A	C
ATOM	1359	O	TPO A	287	192.886	181.536	-7.600	1.00	25.86	A	O
ATOM	1360	N	TPO A	288	191.139	181.614	-6.033	1.00	16.91	A	N
ATOM	1361	CA	TPO A	288	192.066	181.441	-4.938	1.00	16.31	A	C
ATOM	1362	CB	TPO A	288	191.262	181.750	-3.672	1.00	18.77	A	C
ATOM	1363	CG2	TPO A	288	192.190	181.949	-2.512	1.00	16.50	A	C
ATOM	1364	OG1	TPO A	288	190.694	183.015	-3.936	1.00	23.64	A	O
ATOM	1365	P	TPO A	288	189.163	183.188	-3.329	1.00	18.56	A	P
ATOM	1366	O1P	TPO A	288	189.234	182.723	-1.818	1.00	19.25	A	O
ATOM	1367	O2P	TPO A	288	188.217	182.242	-4.154	1.00	24.67	A	O
ATOM	1368	O3P	TPO A	288	188.820	184.760	-3.320	1.00	24.29	A	O
ATOM	1369	C	TPO A	288	192.828	180.109	-4.873	1.00	17.62	A	C
ATOM	1370	O	TPO A	288	192.132	178.986	-5.036	1.00	16.48	A	O
ATOM	1371	N	LEU A	289	194.152	180.122	-4.825	1.00	19.62	A	N
ATOM	1372	CA	LEU A	289	194.793	178.875	-4.419	1.00	20.29	A	C
ATOM	1373	CB	LEU A	289	196.229	178.759	-4.993	1.00	21.71	A	C
ATOM	1374	CG	LEU A	289	196.977	177.458	-4.598	1.00	25.59	A	C
ATOM	1375	CD1	LEU A	289	196.506	176.298	-5.488	1.00	30.17	A	C
ATOM	1376	CD2	LEU A	289	198.475	177.596	-4.769	1.00	26.69	A	C
ATOM	1377	C	LEU A	289	194.833	178.800	-2.900	1.00	17.60	A	C
ATOM	1378	O	LEU A	289	195.428	179.646	-2.272	1.00	20.61	A	O
ATOM	1379	N	CYS A	290	194.191	177.810	-2.307	1.00	16.97	A	N
ATOM	1380	CA	CYS A	290	194.204	177.679	-0.844	1.00	18.91	A	C
ATOM	1381	CB	CYS A	290	193.102	178.535	-0.201	1.00	16.86	A	C
ATOM	1382	SG	CYS A	290	191.434	178.234	-0.820	1.00	22.10	A	S
ATOM	1383	C	CYS A	290	194.003	176.211	-0.453	1.00	17.81	A	C
ATOM	1384	O	CYS A	290	193.554	175.403	-1.266	1.00	15.28	A	O
ATOM	1385	N	GLY A	291	194.340	175.862	0.786	1.00	19.11	A	N
ATOM	1386	CA	GLY A	291	194.203	174.484	1.227	1.00	18.98	A	C
ATOM	1387	C	GLY A	291	195.536	173.896	1.644	1.00	19.71	A	C
ATOM	1388	O	GLY A	291	196.458	174.606	2.047	1.00	21.01	A	O
ATOM	1389	N	THR A	292	195.626	172.584	1.523	1.00	18.60	A	N
ATOM	1390	CA	THR A	292	196.800	171.837	1.903	1.00	16.87	A	C
ATOM	1391	CB	THR A	292	196.378	170.657	2.760	1.00	19.75	A	C
ATOM	1392	OG1	THR A	292	195.457	171.126	3.752	1.00	25.57	A	O
ATOM	1393	CG2	THR A	292	197.563	169.991	3.407	1.00	18.64	A	C

ATOM	1394	C	THR A 292	197.453	171.308	0.652	1.00	17.38	A	C
ATOM	1395	O	THR A 292	196.772	170.864	-0.269	1.00	16.20	A	O
ATOM	1396	N	LEU A 293	198.780	171.347	0.631	1.00	18.38	A	N
ATOM	1397	CA	LEU A 293	199.545	170.868	-0.511	1.00	18.67	A	C
ATOM	1398	CB	LEU A 293	201.011	170.747	-0.102	1.00	18.33	A	C
ATOM	1399	CG	LEU A 293	201.947	170.217	-1.188	1.00	19.70	A	C
ATOM	1400	CD1	LEU A 293	201.997	171.229	-2.316	1.00	20.14	A	C
ATOM	1401	CD2	LEU A 293	203.332	169.962	-0.603	1.00	18.52	A	C
ATOM	1402	C	LEU A 293	199.063	169.533	-1.126	1.00	19.06	A	C
ATOM	1403	O	LEU A 293	198.654	169.496	-2.287	1.00	16.78	A	O
ATOM	1404	N	ASP A 294	199.106	168.447	-0.355	1.00	16.52	A	N
ATOM	1405	CA	ASP A 294	198.701	167.143	-0.868	1.00	15.08	A	C
ATOM	1406	CB	ASP A 294	199.029	166.048	0.164	1.00	19.73	A	C
ATOM	1407	CG	ASP A 294	200.527	165.669	0.175	1.00	23.92	A	C
ATOM	1408	OD1	ASP A 294	201.065	165.254	-0.891	1.00	23.94	A	O
ATOM	1409	OD2	ASP A 294	201.161	165.783	1.245	1.00	24.71	A	O
ATOM	1410	C	ASP A 294	197.239	167.026	-1.309	1.00	14.50	A	C
ATOM	1411	O	ASP A 294	196.875	166.084	-2.011	1.00	11.76	A	O
ATOM	1412	N	TYR A 295	196.411	167.996	-0.923	1.00	13.78	A	N
ATOM	1413	CA	TYR A 295	194.993	167.963	-1.267	1.00	12.35	A	C
ATOM	1414	CB	TYR A 295	194.156	168.157	-0.001	1.00	12.74	A	C
ATOM	1415	CG	TYR A 295	194.061	166.933	0.868	1.00	16.79	A	C
ATOM	1416	CD1	TYR A 295	195.179	166.449	1.561	1.00	19.00	A	C
ATOM	1417	CE1	TYR A 295	195.119	165.265	2.307	1.00	18.70	A	C
ATOM	1418	CD2	TYR A 295	192.871	166.216	0.947	1.00	16.93	A	C
ATOM	1419	CE2	TYR A 295	192.792	165.035	1.682	1.00	21.69	A	C
ATOM	1420	CZ	TYR A 295	193.916	164.559	2.357	1.00	22.19	A	C
ATOM	1421	OH	TYR A 295	193.805	163.362	3.046	1.00	26.24	A	O
ATOM	1422	C	TYR A 295	194.542	168.963	-2.336	1.00	10.66	A	C
ATOM	1423	O	TYR A 295	193.387	168.955	-2.741	1.00	11.85	A	O
ATOM	1424	N	LEU A 296	195.460	169.797	-2.805	1.00	10.92	A	N
ATOM	1425	CA	LEU A 296	195.119	170.800	-3.807	1.00	13.78	A	C
ATOM	1426	CB	LEU A 296	196.328	171.679	-4.144	1.00	11.44	A	C
ATOM	1427	CG	LEU A 296	196.931	172.488	-2.995	1.00	15.78	A	C
ATOM	1428	CD1	LEU A 296	198.287	173.081	-3.411	1.00	13.74	A	C
ATOM	1429	CD2	LEU A 296	195.954	173.585	-2.582	1.00	15.05	A	C
ATOM	1430	C	LEU A 296	194.591	170.206	-5.108	1.00	14.17	A	C
ATOM	1431	O	LEU A 296	195.144	169.255	-5.648	1.00	12.20	A	O
ATOM	1432	N	PRO A 297	193.504	170.783	-5.631	1.00	13.56	A	N
ATOM	1433	CD	PRO A 297	192.676	171.841	-5.015	1.00	13.83	A	C
ATOM	1434	CA	PRO A 297	192.921	170.302	-6.893	1.00	12.38	A	C
ATOM	1435	CB	PRO A 297	191.516	170.923	-6.872	1.00	14.10	A	C
ATOM	1436	CG	PRO A 297	191.744	172.233	-6.155	1.00	13.16	A	C
ATOM	1437	C	PRO A 297	193.772	170.826	-8.083	1.00	14.86	A	C
ATOM	1438	O	PRO A 297	194.361	171.906	-7.993	1.00	14.20	A	O
ATOM	1439	N	PRO A 298	193.830	170.080	-9.213	1.00	14.90	A	N
ATOM	1440	CD	PRO A 298	193.074	168.838	-9.478	1.00	13.08	A	C
ATOM	1441	CA	PRO A 298	194.606	170.479	-10.403	1.00	12.06	A	C
ATOM	1442	CB	PRO A 298	194.228	169.428	-11.450	1.00	12.23	A	C
ATOM	1443	CG	PRO A 298	193.813	168.254	-10.653	1.00	11.96	A	C
ATOM	1444	C	PRO A 298	194.250	171.874	-10.894	1.00	12.75	A	C
ATOM	1445	O	PRO A 298	195.124	172.677	-11.218	1.00	12.47	A	O
ATOM	1446	N	GLU A 299	192.954	172.154	-10.954	1.00	12.43	A	N
ATOM	1447	CA	GLU A 299	192.495	173.447	-11.427	1.00	15.93	A	C
ATOM	1448	CB	GLU A 299	190.956	173.520	-11.439	1.00	15.99	A	C
ATOM	1449	CG	GLU A 299	190.283	173.211	-10.098	1.00	20.28	A	C
ATOM	1450	CD	GLU A 299	189.893	171.729	-9.951	1.00	22.71	A	C
ATOM	1451	OE1	GLU A 299	190.741	170.854	-10.262	1.00	22.72	A	O
ATOM	1452	OE2	GLU A 299	188.743	171.450	-9.525	1.00	19.63	A	O
ATOM	1453	C	GLU A 299	193.068	174.609	-10.615	1.00	17.99	A	C
ATOM	1454	O	GLU A 299	193.217	175.706	-11.147	1.00	21.24	A	O
ATOM	1455	N	MET A 300	193.385	174.401	-9.340	1.00	17.80	A	N
ATOM	1456	CA	MET A 300	193.949	175.497	-8.541	1.00	21.17	A	C
ATOM	1457	CB	MET A 300	193.781	175.248	-7.031	1.00	21.87	A	C
ATOM	1458	CG	MET A 300	192.562	175.935	-6.417	1.00	24.58	A	C
ATOM	1459	SD	MET A 300	192.223	175.516	-4.665	1.00	23.96	A	S
ATOM	1460	CE	MET A 300	193.835	175.427	-4.097	1.00	25.92	A	C
ATOM	1461	C	MET A 300	195.429	175.697	-8.845	1.00	22.52	A	C
ATOM	1462	O	MET A 300	195.900	176.818	-9.034	1.00	17.97	A	O
ATOM	1463	N	ILE A 301	196.153	174.592	-8.905	1.00	25.70	A	N

ATOM	1464	CA	ILE	A	301	197.573	174.627	-9.160	1.00	28.05	A	C
ATOM	1465	CB	ILE	A	301	198.162	173.192	-9.173	1.00	31.23	A	C
ATOM	1466	CG2	ILE	A	301	199.640	173.228	-9.502	1.00	33.00	A	C
ATOM	1467	CG1	ILE	A	301	197.977	172.525	-7.813	1.00	34.03	A	C
ATOM	1468	CD1	ILE	A	301	198.227	171.019	-7.871	1.00	39.59	A	C
ATOM	1469	C	ILE	A	301	197.857	175.289	-10.501	1.00	28.39	A	C
ATOM	1470	O	ILE	A	301	198.736	176.140	-10.608	1.00	28.70	A	O
ATOM	1471	N	GLU	A	302	197.091	174.902	-11.513	1.00	29.15	A	N
ATOM	1472	CA	GLU	A	302	197.260	175.411	-12.864	1.00	27.63	A	C
ATOM	1473	CB	GLU	A	302	196.614	174.449	-13.847	1.00	28.51	A	C
ATOM	1474	CG	GLU	A	302	197.309	173.128	-13.932	1.00	31.90	A	C
ATOM	1475	CD	GLU	A	302	196.442	172.074	-14.604	1.00	34.88	A	C
ATOM	1476	OE1	GLU	A	302	195.546	172.441	-15.420	1.00	35.44	A	O
ATOM	1477	OE2	GLU	A	302	196.663	170.878	-14.322	1.00	33.88	A	O
ATOM	1478	C	GLU	A	302	196.759	176.817	-13.160	1.00	26.56	A	C
ATOM	1479	O	GLU	A	302	196.730	177.216	-14.323	1.00	25.45	A	O
ATOM	1480	N	GLY	A	303	196.351	177.553	-12.130	1.00	26.68	A	N
ATOM	1481	CA	GLY	A	303	195.891	178.915	-12.333	1.00	24.63	A	C
ATOM	1482	C	GLY	A	303	194.576	179.072	-13.077	1.00	26.17	A	C
ATOM	1483	O	GLY	A	303	194.333	180.080	-13.739	1.00	25.60	A	O
ATOM	1484	N	ARG	A	304	193.718	178.068	-12.976	1.00	27.24	A	N
ATOM	1485	CA	ARG	A	304	192.409	178.095	-13.617	1.00	26.83	A	C
ATOM	1486	CB	ARG	A	304	192.068	176.721	-14.229	1.00	26.35	A	C
ATOM	1487	CG	ARG	A	304	192.726	176.410	-15.584	1.00	35.40	A	C
ATOM	1488	CD	ARG	A	304	191.737	176.691	-16.749	1.00	43.36	A	C
ATOM	1489	NE	ARG	A	304	192.316	176.665	-18.095	1.00	47.14	A	N
ATOM	1490	CZ	ARG	A	304	191.602	176.827	-19.210	1.00	51.59	A	C
ATOM	1491	NH1	ARG	A	304	190.290	177.025	-19.121	1.00	54.10	A	N
ATOM	1492	NH2	ARG	A	304	192.189	176.794	-20.413	1.00	53.71	A	N
ATOM	1493	C	ARG	A	304	191.386	178.429	-12.536	1.00	27.81	A	C
ATOM	1494	O	ARG	A	304	191.684	178.391	-11.326	1.00	29.71	A	O
ATOM	1495	N	MET	A	305	190.178	178.746	-12.969	1.00	25.68	A	N
ATOM	1496	CA	MET	A	305	189.112	179.048	-12.038	1.00	26.17	A	C
ATOM	1497	CB	MET	A	305	188.027	179.807	-12.757	1.00	30.29	A	C
ATOM	1498	CG	MET	A	305	188.517	181.155	-13.154	1.00	35.60	A	C
ATOM	1499	SD	MET	A	305	187.192	182.156	-13.740	1.00	46.48	A	S
ATOM	1500	CE	MET	A	305	187.949	182.896	-15.291	1.00	45.95	A	C
ATOM	1501	C	MET	A	305	188.544	177.772	-11.466	1.00	23.39	A	C
ATOM	1502	O	MET	A	305	188.653	176.721	-12.082	1.00	23.54	A	O
ATOM	1503	N	HIS	A	306	187.934	177.852	-10.290	1.00	21.16	A	N
ATOM	1504	CA	HIS	A	306	187.363	176.655	-9.703	1.00	17.32	A	C
ATOM	1505	CB	HIS	A	306	188.312	176.035	-8.671	1.00	15.79	A	C
ATOM	1506	CG	HIS	A	306	188.498	176.853	-7.431	1.00	14.36	A	C
ATOM	1507	CD2	HIS	A	306	187.895	176.788	-6.218	1.00	12.29	A	C
ATOM	1508	ND1	HIS	A	306	189.411	177.880	-7.347	1.00	15.91	A	N
ATOM	1509	CE1	HIS	A	306	189.366	178.411	-6.139	1.00	13.45	A	C
ATOM	1510	NE2	HIS	A	306	188.453	177.767	-5.434	1.00	10.38	A	N
ATOM	1511	C	HIS	A	306	186.000	176.913	-9.078	1.00	18.65	A	C
ATOM	1512	O	HIS	A	306	185.528	178.063	-9.040	1.00	15.46	A	O
ATOM	1513	N	ASP	A	307	185.376	175.822	-8.622	1.00	18.40	A	N
ATOM	1514	CA	ASP	A	307	184.057	175.824	-7.986	1.00	20.30	A	C
ATOM	1515	CB	ASP	A	307	182.969	175.631	-9.035	1.00	24.34	A	C
ATOM	1516	CG	ASP	A	307	183.174	174.374	-9.865	1.00	30.83	A	C
ATOM	1517	OD1	ASP	A	307	183.553	173.321	-9.286	1.00	33.25	A	O
ATOM	1518	OD2	ASP	A	307	182.949	174.430	-11.098	1.00	33.88	A	O
ATOM	1519	C	ASP	A	307	183.948	174.721	-6.917	1.00	19.00	A	C
ATOM	1520	O	ASP	A	307	184.973	174.176	-6.486	1.00	21.60	A	O
ATOM	1521	N	GLU	A	308	182.720	174.368	-6.519	1.00	18.46	A	N
ATOM	1522	CA	GLU	A	308	182.507	173.358	-5.479	1.00	17.19	A	C
ATOM	1523	CB	GLU	A	308	181.014	173.257	-5.075	1.00	19.78	A	C
ATOM	1524	CG	GLU	A	308	180.067	172.849	-6.190	1.00	29.00	A	C
ATOM	1525	CD	GLU	A	308	178.600	172.827	-5.777	1.00	33.58	A	C
ATOM	1526	OE1	GLU	A	308	178.121	173.800	-5.139	1.00	36.06	A	O
ATOM	1527	OE2	GLU	A	308	177.910	171.836	-6.115	1.00	41.55	A	O
ATOM	1528	C	GLU	A	308	183.048	171.977	-5.820	1.00	14.99	A	C
ATOM	1529	O	GLU	A	308	183.135	171.106	-4.946	1.00	14.14	A	O
ATOM	1530	N	LYS	A	309	183.452	171.780	-7.066	1.00	12.83	A	N
ATOM	1531	CA	LYS	A	309	183.997	170.488	-7.449	1.00	16.26	A	C
ATOM	1532	CB	LYS	A	309	184.061	170.376	-8.972	1.00	18.82	A	C
ATOM	1533	CG	LYS	A	309	182.731	170.086	-9.593	1.00	21.29	A	C

ATOM	1534	CD	LYS A 309	182.215	168.769	-9.041	1.00	29.52	A	C
ATOM	1535	CE	LYS A 309	181.020	168.263	-9.842	1.00	30.17	A	C
ATOM	1536	NZ	LYS A 309	180.649	166.912	-9.358	1.00	35.57	A	N
ATOM	1537	C	LYS A 309	185.370	170.202	-6.826	1.00	16.49	A	C
ATOM	1538	O	LYS A 309	185.816	169.051	-6.804	1.00	15.73	A	O
ATOM	1539	N	VAL A 310	186.025	171.233	-6.291	1.00	15.44	A	N
ATOM	1540	CA	VAL A 310	187.319	171.020	-5.662	1.00	13.90	A	C
ATOM	1541	CB	VAL A 310	188.051	172.358	-5.281	1.00	15.52	A	C
ATOM	1542	CG1	VAL A 310	188.197	173.247	-6.503	1.00	7.36	A	C
ATOM	1543	CG2	VAL A 310	187.332	173.065	-4.151	1.00	12.70	A	C
ATOM	1544	C	VAL A 310	187.132	170.159	-4.410	1.00	17.23	A	C
ATOM	1545	O	VAL A 310	188.008	169.357	-4.083	1.00	19.39	A	O
ATOM	1546	N	ASP A 311	186.013	170.306	-3.700	1.00	14.90	A	N
ATOM	1547	CA	ASP A 311	185.804	169.452	-2.541	1.00	14.20	A	C
ATOM	1548	CB	ASP A 311	184.574	169.876	-1.727	1.00	16.81	A	C
ATOM	1549	CG	ASP A 311	184.778	171.192	-0.974	1.00	16.28	A	C
ATOM	1550	OD1	ASP A 311	185.950	171.565	-0.731	1.00	12.12	A	O
ATOM	1551	OD2	ASP A 311	183.756	171.832	-0.617	1.00	13.33	A	O
ATOM	1552	C	ASP A 311	185.640	167.983	-2.979	1.00	14.98	A	C
ATOM	1553	O	ASP A 311	185.953	167.090	-2.202	1.00	16.71	A	O
ATOM	1554	N	LEU A 312	185.162	167.723	-4.205	1.00	13.32	A	N
ATOM	1555	CA	LEU A 312	185.019	166.342	-4.703	1.00	13.83	A	C
ATOM	1556	CB	LEU A 312	184.238	166.279	-6.028	1.00	12.75	A	C
ATOM	1557	CG	LEU A 312	182.708	166.216	-6.008	1.00	16.02	A	C
ATOM	1558	CD1	LEU A 312	182.269	164.959	-5.273	1.00	14.12	A	C
ATOM	1559	CD2	LEU A 312	182.118	167.482	-5.336	1.00	16.09	A	C
ATOM	1560	C	LEU A 312	186.399	165.749	-4.951	1.00	13.94	A	C
ATOM	1561	O	LEU A 312	186.616	164.546	-4.837	1.00	15.77	A	O
ATOM	1562	N	TRP A 313	187.338	166.594	-5.329	1.00	15.19	A	N
ATOM	1563	CA	TRP A 313	188.673	166.093	-5.553	1.00	13.67	A	C
ATOM	1564	CB	TRP A 313	189.505	167.131	-6.287	1.00	10.13	A	C
ATOM	1565	CG	TRP A 313	190.948	166.889	-6.208	1.00	9.91	A	C
ATOM	1566	CD2	TRP A 313	191.775	166.296	-7.214	1.00	11.32	A	C
ATOM	1567	CE2	TRP A 313	193.109	166.370	-6.750	1.00	10.99	A	C
ATOM	1568	CE3	TRP A 313	191.523	165.729	-8.471	1.00	8.98	A	C
ATOM	1569	CD1	TRP A 313	191.784	167.266	-5.199	1.00	10.59	A	C
ATOM	1570	NE1	TRP A 313	193.083	166.960	-5.513	1.00	9.03	A	N
ATOM	1571	CZ2	TRP A 313	194.190	165.890	-7.494	1.00	10.17	A	C
ATOM	1572	CZ3	TRP A 313	192.598	165.254	-9.214	1.00	13.43	A	C
ATOM	1573	CH2	TRP A 313	193.923	165.344	-8.723	1.00	12.05	A	C
ATOM	1574	C	TRP A 313	189.258	165.776	-4.183	1.00	12.20	A	C
ATOM	1575	O	TRP A 313	189.803	164.704	-3.983	1.00	11.38	A	O
ATOM	1576	N	SER A 314	189.111	166.700	-3.236	1.00	13.68	A	N
ATOM	1577	CA	SER A 314	189.636	166.492	-1.893	1.00	16.07	A	C
ATOM	1578	CB	SER A 314	189.229	167.643	-0.984	1.00	17.53	A	C
ATOM	1579	OG	SER A 314	190.261	168.612	-0.972	1.00	25.41	A	O
ATOM	1580	C	SER A 314	189.172	165.168	-1.283	1.00	16.32	A	C
ATOM	1581	O	SER A 314	189.942	164.475	-0.628	1.00	15.29	A	O
ATOM	1582	N	LEU A 315	187.907	164.838	-1.517	1.00	15.55	A	N
ATOM	1583	CA	LEU A 315	187.311	163.618	-1.029	1.00	15.03	A	C
ATOM	1584	CB	LEU A 315	185.822	163.597	-1.392	1.00	15.51	A	C
ATOM	1585	CG	LEU A 315	184.951	162.599	-0.624	1.00	17.84	A	C
ATOM	1586	CD1	LEU A 315	184.877	163.015	0.840	1.00	17.24	A	C
ATOM	1587	CD2	LEU A 315	183.555	162.551	-1.222	1.00	15.53	A	C
ATOM	1588	C	LEU A 315	188.031	162.402	-1.626	1.00	15.76	A	C
ATOM	1589	O	LEU A 315	188.237	161.399	-0.935	1.00	16.26	A	O
ATOM	1590	N	GLY A 316	188.414	162.480	-2.899	1.00	13.03	A	N
ATOM	1591	CA	GLY A 316	189.109	161.357	-3.507	1.00	12.73	A	C
ATOM	1592	C	GLY A 316	190.486	161.200	-2.878	1.00	13.41	A	C
ATOM	1593	O	GLY A 316	190.933	160.092	-2.576	1.00	11.78	A	O
ATOM	1594	N	VAL A 317	191.167	162.329	-2.702	1.00	12.49	A	N
ATOM	1595	CA	VAL A 317	192.481	162.351	-2.089	1.00	11.35	A	C
ATOM	1596	CB	VAL A 317	193.034	163.812	-1.984	1.00	11.65	A	C
ATOM	1597	CG1	VAL A 317	194.231	163.859	-1.079	1.00	10.54	A	C
ATOM	1598	CG2	VAL A 317	193.431	164.323	-3.360	1.00	8.84	A	C
ATOM	1599	C	VAL A 317	192.362	161.759	-0.680	1.00	12.97	A	C
ATOM	1600	O	VAL A 317	193.152	160.887	-0.280	1.00	11.80	A	O
ATOM	1601	N	LEU A 318	191.355	162.229	0.052	1.00	10.99	A	N
ATOM	1602	CA	LEU A 318	191.097	161.785	1.408	1.00	12.40	A	C
ATOM	1603	CB	LEU A 318	189.958	162.618	2.007	1.00	15.26	A	C

ATOM	1604	CG	LEU	A	318	189.652	162.340	3.475	1.00	15.97	A	C
ATOM	1605	CD1	LEU	A	318	190.731	162.990	4.377	1.00	14.54	A	C
ATOM	1606	CD2	LEU	A	318	188.310	162.873	3.763	1.00	13.89	A	C
ATOM	1607	C	LEU	A	318	190.760	160.286	1.527	1.00	12.64	A	C
ATOM	1608	O	LEU	A	318	191.232	159.610	2.437	1.00	10.92	A	O
ATOM	1609	N	CYS	A	319	189.936	159.778	0.617	1.00	12.91	A	N
ATOM	1610	CA	CYS	A	319	189.547	158.372	0.623	1.00	15.63	A	C
ATOM	1611	CB	CYS	A	319	188.512	158.092	-0.479	1.00	20.57	A	C
ATOM	1612	SG	CYS	A	319	187.933	156.363	-0.531	1.00	23.04	A	S
ATOM	1613	C	CYS	A	319	190.757	157.490	0.394	1.00	15.66	A	C
ATOM	1614	O	CYS	A	319	190.906	156.439	1.025	1.00	15.68	A	O
ATOM	1615	N	TYR	A	320	191.614	157.922	-0.527	1.00	13.11	A	N
ATOM	1616	CA	TYR	A	320	192.833	157.194	-0.827	1.00	12.42	A	C
ATOM	1617	CB	TYR	A	320	193.560	157.870	-1.999	1.00	12.90	A	C
ATOM	1618	CG	TYR	A	320	194.879	157.235	-2.378	1.00	11.79	A	C
ATOM	1619	CD1	TYR	A	320	196.014	157.423	-1.594	1.00	11.63	A	C
ATOM	1620	CE1	TYR	A	320	197.213	156.803	-1.906	1.00	13.39	A	C
ATOM	1621	CD2	TYR	A	320	194.978	156.414	-3.495	1.00	13.02	A	C
ATOM	1622	CE2	TYR	A	320	196.167	155.790	-3.822	1.00	14.81	A	C
ATOM	1623	CZ	TYR	A	320	197.287	155.980	-3.023	1.00	16.61	A	C
ATOM	1624	OH	TYR	A	320	198.459	155.299	-3.325	1.00	14.17	A	O
ATOM	1625	C	TYR	A	320	193.727	157.138	0.428	1.00	13.58	A	C
ATOM	1626	O	TYR	A	320	194.217	156.062	0.797	1.00	12.75	A	O
ATOM	1627	N	GLU	A	321	193.922	158.287	1.083	1.00	12.98	A	N
ATOM	1628	CA	GLU	A	321	194.752	158.359	2.289	1.00	13.87	A	C
ATOM	1629	CB	GLU	A	321	194.858	159.798	2.815	1.00	15.03	A	C
ATOM	1630	CG	GLU	A	321	196.109	160.011	3.685	1.00	22.02	A	C
ATOM	1631	CD	GLU	A	321	196.204	161.394	4.326	1.00	27.52	A	C
ATOM	1632	OE1	GLU	A	321	195.889	162.413	3.676	1.00	30.94	A	O
ATOM	1633	OE2	GLU	A	321	196.621	161.470	5.494	1.00	31.35	A	O
ATOM	1634	C	GLU	A	321	194.218	157.470	3.416	1.00	14.01	A	C
ATOM	1635	O	GLU	A	321	194.986	156.877	4.166	1.00	14.13	A	O
ATOM	1636	N	PHE	A	322	192.899	157.384	3.536	1.00	13.55	A	N
ATOM	1637	CA	PHE	A	322	192.291	156.568	4.576	1.00	12.09	A	C
ATOM	1638	CB	PHE	A	322	190.765	156.710	4.570	1.00	6.70	A	C
ATOM	1639	CG	PHE	A	322	190.272	157.975	5.176	1.00	6.79	A	C
ATOM	1640	CD1	PHE	A	322	191.144	158.836	5.838	1.00	7.89	A	C
ATOM	1641	CD2	PHE	A	322	188.933	158.312	5.106	1.00	8.09	A	C
ATOM	1642	CE1	PHE	A	322	190.688	160.011	6.416	1.00	6.90	A	C
ATOM	1643	CE2	PHE	A	322	188.464	159.497	5.689	1.00	10.00	A	C
ATOM	1644	CZ	PHE	A	322	189.346	160.340	6.345	1.00	8.24	A	C
ATOM	1645	C	PHE	A	322	192.629	155.107	4.398	1.00	12.56	A	C
ATOM	1646	O	PHE	A	322	192.888	154.401	5.375	1.00	14.57	A	O
ATOM	1647	N	LEU	A	323	192.629	154.663	3.147	1.00	11.23	A	N
ATOM	1648	CA	LEU	A	323	192.876	153.269	2.830	1.00	10.81	A	C
ATOM	1649	CB	LEU	A	323	192.181	152.923	1.510	1.00	11.58	A	C
ATOM	1650	CG	LEU	A	323	190.650	152.911	1.467	1.00	11.82	A	C
ATOM	1651	CD1	LEU	A	323	190.149	152.693	0.033	1.00	1.00	A	C
ATOM	1652	CD2	LEU	A	323	190.158	151.799	2.429	1.00	8.83	A	C
ATOM	1653	C	LEU	A	323	194.341	152.888	2.725	1.00	13.31	A	C
ATOM	1654	O	LEU	A	323	194.734	151.769	3.072	1.00	13.08	A	O
ATOM	1655	N	VAL	A	324	195.144	153.832	2.253	1.00	13.79	A	N
ATOM	1656	CA	VAL	A	324	196.552	153.589	2.028	1.00	13.43	A	C
ATOM	1657	CB	VAL	A	324	196.958	154.241	0.703	1.00	13.53	A	C
ATOM	1658	CG1	VAL	A	324	198.387	153.909	0.365	1.00	10.33	A	C
ATOM	1659	CG2	VAL	A	324	196.009	153.788	-0.384	1.00	10.31	A	C
ATOM	1660	C	VAL	A	324	197.439	154.085	3.153	1.00	15.36	A	C
ATOM	1661	O	VAL	A	324	198.496	153.525	3.419	1.00	15.10	A	O
ATOM	1662	N	GLY	A	325	197.019	155.146	3.819	1.00	16.58	A	N
ATOM	1663	CA	GLY	A	325	197.834	155.647	4.902	1.00	18.98	A	C
ATOM	1664	C	GLY	A	325	198.687	156.819	4.459	1.00	22.31	A	C
ATOM	1665	O	GLY	A	325	199.484	157.330	5.245	1.00	22.91	A	O
ATOM	1666	N	LYS	A	326	198.556	157.238	3.204	1.00	22.34	A	N
ATOM	1667	CA	LYS	A	326	199.299	158.399	2.743	1.00	20.73	A	C
ATOM	1668	CB	LYS	A	326	200.775	158.057	2.468	1.00	22.54	A	C
ATOM	1669	CG	LYS	A	326	201.002	157.016	1.405	1.00	26.76	A	C
ATOM	1670	CD	LYS	A	326	202.478	156.728	1.181	1.00	29.37	A	C
ATOM	1671	CE	LYS	A	326	202.635	155.634	0.108	1.00	36.99	A	C
ATOM	1672	NZ	LYS	A	326	204.059	155.235	-0.146	1.00	40.73	A	N
ATOM	1673	C	LYS	A	326	198.627	158.927	1.496	1.00	18.10	A	C

ATOM	1674	O	LYS A	326	198.050	158.173	0.745	1.00	18.75	A	O
ATOM	1675	N	PRO A	327	198.657	160.254	1.290	1.00	19.06	A	N
ATOM	1676	CD	PRO A	327	199.416	161.265	2.050	1.00	18.18	A	C
ATOM	1677	CA	PRO A	327	198.046	160.877	0.111	1.00	16.77	A	C
ATOM	1678	CB	PRO A	327	198.349	162.358	0.331	1.00	18.27	A	C
ATOM	1679	CG	PRO A	327	199.652	162.318	0.997	1.00	17.79	A	C
ATOM	1680	C	PRO A	327	198.719	160.334	-1.156	1.00	15.47	A	C
ATOM	1681	O	PRO A	327	199.920	160.074	-1.165	1.00	17.98	A	O
ATOM	1682	N	PRO A	328	197.967	160.221	-2.256	1.00	15.81	A	N
ATOM	1683	CD	PRO A	328	196.629	160.830	-2.419	1.00	13.52	A	C
ATOM	1684	CA	PRO A	328	198.467	159.699	-3.540	1.00	13.75	A	C
ATOM	1685	CB	PRO A	328	197.183	159.511	-4.345	1.00	15.58	A	C
ATOM	1686	CG	PRO A	328	196.384	160.712	-3.922	1.00	15.99	A	C
ATOM	1687	C	PRO A	328	199.517	160.502	-4.312	1.00	14.29	A	C
ATOM	1688	O	PRO A	328	200.226	159.947	-5.150	1.00	15.51	A	O
ATOM	1689	N	PHE A	329	199.627	161.798	-4.039	1.00	15.34	A	N
ATOM	1690	CA	PHE A	329	200.600	162.627	-4.758	1.00	16.02	A	C
ATOM	1691	CB	PHE A	329	199.880	163.832	-5.357	1.00	11.57	A	C
ATOM	1692	CG	PHE A	329	198.677	163.456	-6.171	1.00	10.41	A	C
ATOM	1693	CD1	PHE A	329	198.831	162.822	-7.393	1.00	7.22	A	C
ATOM	1694	CD2	PHE A	329	197.389	163.646	-5.672	1.00	10.88	A	C
ATOM	1695	CE1	PHE A	329	197.722	162.365	-8.117	1.00	11.91	A	C
ATOM	1696	CE2	PHE A	329	196.267	163.194	-6.387	1.00	9.29	A	C
ATOM	1697	CZ	PHE A	329	196.435	162.548	-7.611	1.00	11.49	A	C
ATOM	1698	C	PHE A	329	201.774	163.073	-3.896	1.00	18.50	A	C
ATOM	1699	O	PHE A	329	202.501	163.999	-4.242	1.00	17.82	A	O
ATOM	1700	N	GLU A	330	201.968	162.411	-2.765	1.00	20.96	A	N
ATOM	1701	CA	GLU A	330	203.061	162.781	-1.872	1.00	25.68	A	C
ATOM	1702	CB	GLU A	330	203.042	161.868	-0.653	1.00	28.63	A	C
ATOM	1703	CG	GLU A	330	203.889	162.292	0.527	1.00	35.48	A	C
ATOM	1704	CD	GLU A	330	203.618	161.381	1.725	1.00	40.14	A	C
ATOM	1705	OE1	GLU A	330	203.825	161.798	2.890	1.00	43.93	A	O
ATOM	1706	OE2	GLU A	330	203.186	160.230	1.490	1.00	43.19	A	O
ATOM	1707	C	GLU A	330	204.404	162.666	-2.593	1.00	25.36	A	C
ATOM	1708	O	GLU A	330	204.712	161.627	-3.177	1.00	25.32	A	O
ATOM	1709	N	ALA A	331	205.195	163.733	-2.551	1.00	23.31	A	N
ATOM	1710	CA	ALA A	331	206.506	163.745	-3.184	1.00	23.23	A	C
ATOM	1711	CB	ALA A	331	206.432	164.479	-4.500	1.00	19.73	A	C
ATOM	1712	C	ALA A	331	207.503	164.429	-2.239	1.00	24.76	A	C
ATOM	1713	O	ALA A	331	207.109	165.040	-1.249	1.00	22.52	A	O
ATOM	1714	N	ASN A	332	208.794	164.320	-2.542	1.00	27.89	A	N
ATOM	1715	CA	ASN A	332	209.822	164.922	-1.692	1.00	30.47	A	C
ATOM	1716	CB	ASN A	332	211.174	164.246	-1.975	1.00	32.87	A	C
ATOM	1717	CG	ASN A	332	211.190	162.794	-1.504	1.00	37.45	A	C
ATOM	1718	OD1	ASN A	332	210.716	162.504	-0.401	1.00	36.73	A	O
ATOM	1719	ND2	ASN A	332	211.729	161.883	-2.321	1.00	37.38	A	N
ATOM	1720	C	ASN A	332	209.942	166.462	-1.771	1.00	29.91	A	C
ATOM	1721	O	ASN A	332	210.601	167.073	-0.928	1.00	29.72	A	O
ATOM	1722	N	THR A	333	209.303	167.092	-2.754	1.00	27.34	A	N
ATOM	1723	CA	THR A	333	209.369	168.544	-2.881	1.00	25.63	A	C
ATOM	1724	CB	THR A	333	210.411	168.968	-3.919	1.00	27.29	A	C
ATOM	1725	OG1	THR A	333	209.862	168.766	-5.232	1.00	25.31	A	O
ATOM	1726	CG2	THR A	333	211.683	168.122	-3.769	1.00	28.40	A	C
ATOM	1727	C	THR A	333	208.021	169.099	-3.341	1.00	24.25	A	C
ATOM	1728	O	THR A	333	207.168	168.355	-3.832	1.00	24.65	A	C
ATOM	1729	N	TYR A	334	207.839	170.406	-3.177	1.00	22.97	A	O
ATOM	1730	CA	TYR A	334	206.610	171.081	-3.584	1.00	24.27	A	C
ATOM	1731	CB	TYR A	334	206.670	172.557	-3.243	1.00	26.40	A	C
ATOM	1732	CG	TYR A	334	206.122	172.899	-1.885	1.00	28.73	A	C
ATOM	1733	CD1	TYR A	334	206.846	172.639	-0.725	1.00	29.53	A	C
ATOM	1734	CE1	TYR A	334	206.322	172.945	0.537	1.00	32.11	A	C
ATOM	1735	CD2	TYR A	334	204.863	173.476	-1.759	1.00	28.50	A	C
ATOM	1736	CE2	TYR A	334	204.329	173.794	-0.497	1.00	29.43	A	C
ATOM	1737	CZ	TYR A	334	205.072	173.518	0.645	1.00	31.88	A	C
ATOM	1738	OH	TYR A	334	204.597	173.783	1.910	1.00	34.80	A	C
ATOM	1739	C	TYR A	334	206.379	170.979	-5.088	1.00	25.01	A	O
ATOM	1740	O	TYR A	334	205.267	170.712	-5.567	1.00	24.09	A	C
ATOM	1741	N	GLN A	335	207.445	171.221	-5.831	1.00	24.15	A	N
ATOM	1742	CA	GLN A	335	207.401	171.183	-7.272	1.00	26.26	A	C
ATOM	1743	CB	GLN A	335	208.763	171.616	-7.820	1.00	30.16	A	C

ATOM	1744	CG	GLN A	335	208.690	172.407	-9.123	1.00	37.20	A	C
ATOM	1745	CD	GLN A	335	209.938	173.249	-9.353	1.00	44.29	A	C
ATOM	1746	OE1	GLN A	335	211.075	172.716	-9.361	1.00	45.86	A	O
ATOM	1747	NE2	GLN A	335	209.749	174.581	-9.540	1.00	45.65	A	N
ATOM	1748	C	GLN A	335	207.014	169.785	-7.766	1.00	24.06	A	C
ATOM	1749	O	GLN A	335	206.182	169.643	-8.661	1.00	20.60	A	O
ATOM	1750	N	GLU A	336	207.596	168.746	-7.179	1.00	23.21	A	N
ATOM	1751	CA	GLU A	336	207.243	167.407	-7.624	1.00	22.61	A	C
ATOM	1752	CB	GLU A	336	208.183	166.360	-7.022	1.00	19.74	A	C
ATOM	1753	CG	GLU A	336	207.807	164.932	-7.350	1.00	27.97	A	C
ATOM	1754	CD	GLU A	336	207.852	164.603	-8.845	1.00	35.28	A	C
ATOM	1755	OE1	GLU A	336	207.231	163.579	-9.236	1.00	38.15	A	O
ATOM	1756	OE2	GLU A	336	208.508	165.350	-9.628	1.00	39.74	A	O
ATOM	1757	C	GLU A	336	205.775	167.056	-7.327	1.00	23.14	A	C
ATOM	1758	O	GLU A	336	205.138	166.363	-8.124	1.00	23.03	A	O
ATOM	1759	N	THR A	337	205.241	167.517	-6.196	1.00	21.09	A	N
ATOM	1760	CA	THR A	337	203.849	167.229	-5.868	1.00	21.21	A	C
ATOM	1761	CB	THR A	337	203.541	167.589	-4.380	1.00	22.66	A	C
ATOM	1762	OG1	THR A	337	204.334	166.744	-3.537	1.00	24.71	A	O
ATOM	1763	CG2	THR A	337	202.072	167.366	-4.030	1.00	16.15	A	C
ATOM	1764	C	THR A	337	202.918	167.944	-6.855	1.00	19.71	A	C
ATOM	1765	O	THR A	337	201.978	167.329	-7.346	1.00	21.88	A	O
ATOM	1766	N	TYR A	338	203.191	169.210	-7.171	1.00	17.76	A	N
ATOM	1767	CA	TYR A	338	202.404	169.982	-8.151	1.00	17.94	A	C
ATOM	1768	CB	TYR A	338	203.051	171.348	-8.416	1.00	19.72	A	C
ATOM	1769	CG	TYR A	338	202.924	172.309	-7.282	1.00	21.47	A	C
ATOM	1770	CD1	TYR A	338	203.927	173.231	-7.014	1.00	26.12	A	C
ATOM	1771	CE1	TYR A	338	203.780	174.172	-6.003	1.00	31.99	A	C
ATOM	1772	CD2	TYR A	338	201.775	172.333	-6.506	1.00	23.72	A	C
ATOM	1773	CE2	TYR A	338	201.609	173.256	-5.498	1.00	28.25	A	C
ATOM	1774	CZ	TYR A	338	202.605	174.184	-5.255	1.00	32.26	A	C
ATOM	1775	OH	TYR A	338	202.398	175.197	-4.343	1.00	37.49	A	O
ATOM	1776	C	TYR A	338	202.342	169.248	-9.480	1.00	17.24	A	C
ATOM	1777	O	TYR A	338	201.303	169.202	-10.143	1.00	17.93	A	O
ATOM	1778	N	LYS A	339	203.492	168.704	-9.869	1.00	18.06	A	N
ATOM	1779	CA	LYS A	339	203.635	167.967	-11.112	1.00	15.13	A	C
ATOM	1780	CB	LYS A	339	205.087	167.521	-11.318	1.00	15.66	A	C
ATOM	1781	CG	LYS A	339	205.282	166.761	-12.647	1.00	25.11	A	C
ATOM	1782	CD	LYS A	339	206.675	166.164	-12.838	1.00	28.61	A	C
ATOM	1783	CE	LYS A	339	207.736	167.232	-12.973	1.00	30.48	A	C
ATOM	1784	NZ	LYS A	339	209.081	166.590	-13.128	1.00	37.06	A	N
ATOM	1785	C	LYS A	339	202.734	166.747	-11.110	1.00	15.66	A	C
ATOM	1786	O	LYS A	339	201.999	166.520	-12.062	1.00	16.79	A	O
ATOM	1787	N	ARG A	340	202.788	165.963	-10.038	1.00	14.01	A	N
ATOM	1788	CA	ARG A	340	201.980	164.754	-9.941	1.00	17.25	A	C
ATOM	1789	CB	ARG A	340	202.444	163.917	-8.749	1.00	17.92	A	C
ATOM	1790	CG	ARG A	340	203.675	163.112	-9.058	1.00	20.94	A	C
ATOM	1791	CD	ARG A	340	204.273	162.632	-7.805	1.00	26.11	A	C
ATOM	1792	NE	ARG A	340	205.579	162.024	-8.000	1.00	30.74	A	N
ATOM	1793	CZ	ARG A	340	206.247	161.430	-7.014	1.00	34.14	A	C
ATOM	1794	NH1	ARG A	340	205.697	161.387	-5.805	1.00	36.45	A	N
ATOM	1795	NH2	ARG A	340	207.447	160.886	-7.219	1.00	32.82	A	N
ATOM	1796	C	ARG A	340	200.467	164.980	-9.876	1.00	16.32	A	C
ATOM	1797	O	ARG A	340	199.692	164.177	-10.393	1.00	13.54	A	O
ATOM	1798	N	ILE A	341	200.052	166.068	-9.242	1.00	16.44	A	N
ATOM	1799	CA	ILE A	341	198.637	166.396	-9.147	1.00	15.90	A	C
ATOM	1800	CB	ILE A	341	198.425	167.544	-8.133	1.00	14.61	A	C
ATOM	1801	CG2	ILE A	341	197.031	168.173	-8.284	1.00	10.21	A	C
ATOM	1802	CG1	ILE A	341	198.636	166.991	-6.722	1.00	9.86	A	C
ATOM	1803	CD1	ILE A	341	198.865	168.066	-5.710	1.00	10.30	A	C
ATOM	1804	C	ILE A	341	198.139	166.813	-10.524	1.00	16.94	A	C
ATOM	1805	O	ILE A	341	197.099	166.346	-11.003	1.00	15.49	A	O
ATOM	1806	N	SER A	342	198.911	167.677	-11.165	1.00	17.49	A	N
ATOM	1807	CA	SER A	342	198.556	168.185	-12.479	1.00	19.50	A	C
ATOM	1808	CB	SER A	342	199.638	169.153	-12.927	1.00	19.12	A	C
ATOM	1809	OG	SER A	342	199.178	169.899	-14.023	1.00	28.84	A	O
ATOM	1810	C	SER A	342	198.385	167.065	-13.518	1.00	18.65	A	C
ATOM	1811	O	SER A	342	197.544	167.157	-14.414	1.00	17.15	A	O
ATOM	1812	N	ARG A	343	199.209	166.027	-13.391	1.00	16.76	A	N
ATOM	1813	CA	ARG A	343	199.187	164.881	-14.291	1.00	16.82	A	C

ATOM	1814	CB	ARG A	343	200.563	164.214	-14.356	1.00	19.40	A	C
ATOM	1815	CG	ARG A	343	201.744	165.034	-14.873	1.00	20.85	A	C
ATOM	1816	CD	ARG A	343	202.986	164.139	-14.768	1.00	22.63	A	C
ATOM	1817	NE	ARG A	343	204.181	164.667	-15.420	1.00	29.67	A	N
ATOM	1818	CZ	ARG A	343	205.296	163.964	-15.619	1.00	29.30	A	C
ATOM	1819	NH1	ARG A	343	205.362	162.702	-15.211	1.00	27.60	A	N
ATOM	1820	NH2	ARG A	343	206.337	164.521	-16.239	1.00	30.90	A	N
ATOM	1821	C	ARG A	343	198.213	163.833	-13.749	1.00	17.95	A	C
ATOM	1822	O	ARG A	343	197.789	162.927	-14.470	1.00	18.61	A	O
ATOM	1823	N	VAL A	344	197.880	163.963	-12.465	1.00	16.47	A	N
ATOM	1824	CA	VAL A	344	197.014	163.027	-11.767	1.00	15.15	A	C
ATOM	1825	CB	VAL A	344	195.644	162.882	-12.427	1.00	14.04	A	C
ATOM	1826	CG1	VAL A	344	194.791	161.919	-11.603	1.00	14.73	A	C
ATOM	1827	CG2	VAL A	344	194.949	164.217	-12.503	1.00	14.41	A	C
ATOM	1828	C	VAL A	344	197.751	161.702	-11.847	1.00	19.48	A	C
ATOM	1829	O	VAL A	344	197.240	160.697	-12.362	1.00	17.59	A	O
ATOM	1830	N	GLU A	345	198.970	161.733	-11.320	1.00	20.63	A	N
ATOM	1831	CA	GLU A	345	199.883	160.600	-11.314	1.00	21.68	A	C
ATOM	1832	CB	GLU A	345	201.297	161.116	-11.635	1.00	22.57	A	C
ATOM	1833	CG	GLU A	345	202.291	160.066	-12.115	1.00	29.02	A	C
ATOM	1834	CD	GLU A	345	203.609	160.693	-12.596	1.00	34.43	A	C
ATOM	1835	OE1	GLU A	345	203.572	161.826	-13.143	1.00	41.54	A	O
ATOM	1836	OE2	GLU A	345	204.677	160.062	-12.448	1.00	34.88	A	O
ATOM	1837	C	GLU A	345	199.906	159.839	-9.990	1.00	21.02	A	C
ATOM	1838	O	GLU A	345	200.516	160.289	-9.009	1.00	22.86	A	O
ATOM	1839	N	PHE A	346	199.260	158.679	-9.953	1.00	20.71	A	N
ATOM	1840	CA	PHE A	346	199.268	157.868	-8.730	1.00	20.54	A	C
ATOM	1841	CB	PHE A	346	198.272	158.454	-7.705	1.00	19.53	A	C
ATOM	1842	CG	PHE A	346	196.835	158.138	-8.013	1.00	21.11	A	C
ATOM	1843	CD1	PHE A	346	196.203	157.064	-7.403	1.00	22.02	A	C
ATOM	1844	CD2	PHE A	346	196.130	158.888	-8.936	1.00	18.36	A	C
ATOM	1845	CE1	PHE A	346	194.878	156.744	-7.713	1.00	24.10	A	C
ATOM	1846	CE2	PHE A	346	194.807	158.574	-9.253	1.00	23.07	A	C
ATOM	1847	CZ	PHE A	346	194.181	157.500	-8.640	1.00	22.64	A	C
ATOM	1848	C	PHE A	346	198.893	156.424	-9.065	1.00	19.41	A	C
ATOM	1849	O	PHE A	346	198.376	156.142	-10.153	1.00	21.26	A	O
ATOM	1850	N	THR A	347	199.158	155.512	-8.137	1.00	17.51	A	N
ATOM	1851	CA	THR A	347	198.809	154.113	-8.335	1.00	15.60	A	C
ATOM	1852	CB	THR A	347	200.042	153.259	-8.736	1.00	17.00	A	C
ATOM	1853	OG1	THR A	347	201.113	153.494	-7.812	1.00	20.54	A	O
ATOM	1854	CG2	THR A	347	200.506	153.617	-10.145	1.00	14.88	A	C
ATOM	1855	C	THR A	347	198.245	153.623	-7.026	1.00	14.01	A	C
ATOM	1856	O	THR A	347	198.322	154.324	-6.030	1.00	14.17	A	O
ATOM	1857	N	PHE A	348	197.659	152.434	-7.029	1.00	14.30	A	N
ATOM	1858	CA	PHE A	348	197.097	151.875	-5.809	1.00	15.62	A	C
ATOM	1859	CB	PHE A	348	195.673	151.335	-6.022	1.00	13.71	A	C
ATOM	1860	CG	PHE A	348	194.678	152.345	-6.553	1.00	14.90	A	C
ATOM	1861	CD1	PHE A	348	194.476	152.496	-7.926	1.00	14.48	A	C
ATOM	1862	CD2	PHE A	348	193.915	153.115	-5.678	1.00	14.25	A	C
ATOM	1863	CE1	PHE A	348	193.520	153.399	-8.421	1.00	13.33	A	C
ATOM	1864	CE2	PHE A	348	192.956	154.020	-6.160	1.00	12.61	A	C
ATOM	1865	CZ	PHE A	348	192.758	154.162	-7.530	1.00	13.12	A	C
ATOM	1866	C	PHE A	348	197.936	150.690	-5.379	1.00	17.39	A	C
ATOM	1867	O	PHE A	348	198.493	149.986	-6.222	1.00	17.79	A	O
ATOM	1868	N	PRO A	349	198.077	150.478	-4.060	1.00	19.22	A	N
ATOM	1869	CD	PRO A	349	197.716	151.428	-2.984	1.00	20.64	A	C
ATOM	1870	CA	PRO A	349	198.843	149.326	-3.550	1.00	18.28	A	C
ATOM	1871	CB	PRO A	349	198.881	149.550	-2.034	1.00	19.47	A	C
ATOM	1872	CG	PRO A	349	198.663	151.042	-1.874	1.00	21.78	A	C
ATOM	1873	C	PRO A	349	197.913	148.144	-3.906	1.00	18.89	A	C
ATOM	1874	O	PRO A	349	196.765	148.365	-4.282	1.00	18.06	A	O
ATOM	1875	N	ASP A	350	198.360	146.901	-3.778	1.00	22.60	A	N
ATOM	1876	CA	ASP A	350	197.488	145.780	-4.137	1.00	24.29	A	C
ATOM	1877	CB	ASP A	350	198.312	144.494	-4.298	1.00	28.79	A	C
ATOM	1878	CG	ASP A	350	199.378	144.608	-5.404	1.00	33.91	A	C
ATOM	1879	OD1	ASP A	350	200.001	143.575	-5.741	1.00	33.53	A	C
ATOM	1880	OD2	ASP A	350	199.591	145.733	-5.928	1.00	35.29	A	O
ATOM	1881	C	ASP A	350	196.293	145.489	-3.238	1.00	23.99	A	C
ATOM	1882	O	ASP A	350	195.352	144.835	-3.671	1.00	23.48	A	O
ATOM	1883	N	PHE A	351	196.279	145.964	-2.003	1.00	22.20	A	N

ATOM	1884	CA	PHE	A	351	195.125	145.636	-1.171	1.00	23.75	A	C
ATOM	1885	CB	PHE	A	351	195.510	145.662	0.300	1.00	22.72	A	C
ATOM	1886	CG	PHE	A	351	196.082	146.956	0.738	1.00	20.40	A	C
ATOM	1887	CD1	PHE	A	351	197.451	147.151	0.756	1.00	17.28	A	C
ATOM	1888	CD2	PHE	A	351	195.245	147.994	1.111	1.00	19.08	A	C
ATOM	1889	CE1	PHE	A	351	197.983	148.379	1.142	1.00	21.72	A	C
ATOM	1890	CE2	PHE	A	351	195.761	149.217	1.497	1.00	19.31	A	C
ATOM	1891	CZ	PHE	A	351	197.128	149.417	1.515	1.00	20.15	A	C
ATOM	1892	C	PHE	A	351	193.883	146.509	-1.382	1.00	24.86	A	C
ATOM	1893	O	PHE	A	351	192.826	146.215	-0.820	1.00	26.36	A	O
ATOM	1894	N	VAL	A	352	193.999	147.575	-2.174	1.00	22.98	A	N
ATOM	1895	CA	VAL	A	352	192.845	148.431	-2.428	1.00	22.53	A	C
ATOM	1896	CB	VAL	A	352	193.297	149.810	-2.976	1.00	19.91	A	C
ATOM	1897	CG1	VAL	A	352	192.105	150.680	-3.293	1.00	15.94	A	C
ATOM	1898	CG2	VAL	A	352	194.164	150.489	-1.936	1.00	17.58	A	C
ATOM	1899	C	VAL	A	352	191.941	147.702	-3.416	1.00	22.85	A	C
ATOM	1900	O	VAL	A	352	192.351	147.406	-4.541	1.00	25.56	A	O
ATOM	1901	N	THR	A	353	190.722	147.393	-2.985	1.00	20.20	A	N
ATOM	1902	CA	THR	A	353	189.786	146.668	-3.833	1.00	20.47	A	C
ATOM	1903	CB	THR	A	353	188.530	146.264	-3.059	1.00	18.44	A	C
ATOM	1904	OG1	THR	A	353	187.777	147.445	-2.740	1.00	19.14	A	O
ATOM	1905	CG2	THR	A	353	188.915	145.544	-1.786	1.00	15.00	A	C
ATOM	1906	C	THR	A	353	189.331	147.452	-5.049	1.00	23.02	A	C
ATOM	1907	O	THR	A	353	189.525	148.665	-5.144	1.00	21.93	A	O
ATOM	1908	N	GLU	A	354	188.685	146.733	-5.960	1.00	23.98	A	N
ATOM	1909	CA	GLU	A	354	188.175	147.274	-7.208	1.00	25.43	A	C
ATOM	1910	CB	GLU	A	354	187.543	146.130	-8.001	1.00	30.21	A	C
ATOM	1911	CG	GLU	A	354	186.780	146.540	-9.261	1.00	37.82	A	C
ATOM	1912	CD	GLU	A	354	186.031	145.351	-9.890	1.00	41.79	A	C
ATOM	1913	OE1	GLU	A	354	185.501	145.472	-11.025	1.00	43.51	A	O
ATOM	1914	OE2	GLU	A	354	185.974	144.281	-9.224	1.00	44.80	A	O
ATOM	1915	C	GLU	A	354	187.175	148.424	-7.055	1.00	24.34	A	C
ATOM	1916	O	GLU	A	354	187.182	149.386	-7.840	1.00	24.85	A	O
ATOM	1917	N	GLY	A	355	186.298	148.303	-6.065	1.00	20.96	A	N
ATOM	1918	CA	GLY	A	355	185.289	149.314	-5.842	1.00	13.82	A	C
ATOM	1919	C	GLY	A	355	185.908	150.595	-5.333	1.00	16.94	A	C
ATOM	1920	O	GLY	A	355	185.529	151.694	-5.760	1.00	13.60	A	O
ATOM	1921	N	ALA	A	356	186.868	150.473	-4.425	1.00	15.45	A	N
ATOM	1922	CA	ALA	A	356	187.501	151.674	-3.909	1.00	19.10	A	C
ATOM	1923	CB	ALA	A	356	188.475	151.326	-2.761	1.00	18.64	A	C
ATOM	1924	C	ALA	A	356	188.235	152.381	-5.068	1.00	19.08	A	C
ATOM	1925	O	ALA	A	356	188.203	153.604	-5.162	1.00	16.84	A	O
ATOM	1926	N	ARG	A	357	188.874	151.611	-5.951	1.00	18.44	A	N
ATOM	1927	CA	ARG	A	357	189.586	152.184	-7.100	1.00	18.13	A	C
ATOM	1928	CB	ARG	A	357	190.349	151.113	-7.881	1.00	16.00	A	C
ATOM	1929	CG	ARG	A	357	191.447	150.447	-7.112	1.00	15.75	A	C
ATOM	1930	CD	ARG	A	357	192.125	149.414	-7.941	1.00	14.24	A	C
ATOM	1931	NE	ARG	A	357	193.120	148.721	-7.139	1.00	18.00	A	N
ATOM	1932	CZ	ARG	A	357	194.249	148.203	-7.607	1.00	18.74	A	C
ATOM	1933	NH1	ARG	A	357	194.553	148.285	-8.898	1.00	21.62	A	N
ATOM	1934	NH2	ARG	A	357	195.097	147.622	-6.768	1.00	20.49	A	N
ATOM	1935	C	ARG	A	357	188.627	152.856	-8.062	1.00	17.28	A	C
ATOM	1936	O	ARG	A	357	188.949	153.878	-8.637	1.00	16.53	A	O
ATOM	1937	N	ASP	A	358	187.454	152.272	-8.261	1.00	17.73	A	N
ATOM	1938	CA	ASP	A	358	186.511	152.887	-9.176	1.00	17.93	A	C
ATOM	1939	CB	ASP	A	358	185.267	152.024	-9.389	1.00	21.16	A	C
ATOM	1940	CG	ASP	A	358	184.269	152.688	-10.327	1.00	23.93	A	C
ATOM	1941	OD1	ASP	A	358	184.508	152.671	-11.559	1.00	29.93	A	O
ATOM	1942	OD2	ASP	A	358	183.266	153.257	-9.840	1.00	22.82	A	O
ATOM	1943	C	ASP	A	358	186.081	154.234	-8.611	1.00	17.83	A	C
ATOM	1944	O	ASP	A	358	185.996	155.206	-9.348	1.00	20.18	A	O
ATOM	1945	N	LEU	A	359	185.823	154.299	-7.303	1.00	16.69	A	N
ATOM	1946	CA	LEU	A	359	185.389	155.543	-6.680	1.00	15.23	A	C
ATOM	1947	CB	LEU	A	359	184.873	155.292	-5.250	1.00	13.90	A	C
ATOM	1948	CG	LEU	A	359	184.459	156.568	-4.482	1.00	15.76	A	C
ATOM	1949	CD1	LEU	A	359	183.222	157.164	-5.105	1.00	14.16	A	C
ATOM	1950	CD2	LEU	A	359	184.210	156.266	-3.027	1.00	16.19	A	C
ATOM	1951	C	LEU	A	359	186.476	156.623	-6.646	1.00	15.38	A	C
ATOM	1952	O	LEU	A	359	186.234	157.740	-7.071	1.00	16.61	A	O
ATOM	1953	N	ILE	A	360	187.661	156.300	-6.132	1.00	15.08	A	N

ATOM	1954	CA	ILE A	360	188.737	157.280	-6.054	1.00	16.09	A	C
ATOM	1955	CB	ILE A	360	189.972	156.694	-5.305	1.00	13.18	A	C
ATOM	1956	CG2	ILE A	360	191.132	157.645	-5.348	1.00	8.95	A	C
ATOM	1957	CG1	ILE A	360	189.613	156.445	-3.843	1.00	11.43	A	C
ATOM	1958	CD1	ILE A	360	190.486	155.406	-3.211	1.00	15.13	A	C
ATOM	1959	C	ILE A	360	189.126	157.752	-7.457	1.00	18.67	A	C
ATOM	1960	O	ILE A	360	189.433	158.935	-7.652	1.00	19.76	A	O
ATOM	1961	N	SER A	361	189.099	156.841	-8.427	1.00	17.86	A	N
ATOM	1962	CA	SER A	361	189.437	157.193	-9.792	1.00	17.51	A	C
ATOM	1963	CB	SER A	361	189.511	155.952	-10.682	1.00	18.17	A	C
ATOM	1964	OG	SER A	361	190.686	155.223	-10.384	1.00	20.30	A	O
ATOM	1965	C	SER A	361	188.438	158.163	-10.382	1.00	18.63	A	C
ATOM	1966	O	SER A	361	188.805	159.011	-11.209	1.00	19.26	A	O
ATOM	1967	N	ARG A	362	187.175	158.051	-9.977	1.00	18.68	A	N
ATOM	1968	CA	ARG A	362	186.156	158.973	-10.492	1.00	17.96	A	C
ATOM	1969	CB	ARG A	362	184.740	158.464	-10.227	1.00	18.15	A	C
ATOM	1970	CG	ARG A	362	184.389	157.189	-10.948	1.00	21.87	A	C
ATOM	1971	CD	ARG A	362	182.950	156.762	-10.710	1.00	24.92	A	C
ATOM	1972	NE	ARG A	362	182.669	155.532	-11.449	1.00	31.73	A	N
ATOM	1973	CZ	ARG A	362	182.150	155.461	-12.682	1.00	35.25	A	C
ATOM	1974	NH1	ARG A	362	181.805	156.557	-13.358	1.00	34.91	A	N
ATOM	1975	NH2	ARG A	362	182.052	154.276	-13.281	1.00	35.12	A	N
ATOM	1976	C	ARG A	362	186.287	160.332	-9.817	1.00	16.66	A	C
ATOM	1977	O	ARG A	362	186.086	161.367	-10.452	1.00	21.59	A	O
ATOM	1978	N	LEU A	363	186.602	160.348	-8.527	1.00	15.31	A	C
ATOM	1979	CA	LEU A	363	186.726	161.620	-7.814	1.00	15.39	A	C
ATOM	1980	CB	LEU A	363	186.758	161.376	-6.295	1.00	13.54	A	C
ATOM	1981	CG	LEU A	363	185.452	160.880	-5.638	1.00	14.63	A	C
ATOM	1982	CD1	LEU A	363	185.723	160.358	-4.216	1.00	12.73	A	C
ATOM	1983	CD2	LEU A	363	184.423	162.005	-5.613	1.00	7.80	A	C
ATOM	1984	C	LEU A	363	187.989	162.357	-8.252	1.00	16.50	A	C
ATOM	1985	O	LEU A	363	188.033	163.593	-8.252	1.00	16.60	A	O
ATOM	1986	N	LEU A	364	189.008	161.597	-8.656	1.00	17.23	A	N
ATOM	1987	CA	LEU A	364	190.285	162.182	-9.051	1.00	20.15	A	C
ATOM	1988	CB	LEU A	364	191.419	161.335	-8.467	1.00	18.29	A	C
ATOM	1989	CG	LEU A	364	191.504	161.377	-6.926	1.00	20.11	A	C
ATOM	1990	CD1	LEU A	364	192.737	160.607	-6.509	1.00	16.10	A	C
ATOM	1991	CD2	LEU A	364	191.576	162.820	-6.413	1.00	16.30	A	C
ATOM	1992	C	LEU A	364	190.474	162.393	-10.557	1.00	19.92	A	C
ATOM	1993	O	LEU A	364	191.511	162.052	-11.143	1.00	20.12	A	O
ATOM	1994	N	LYS A	365	189.450	162.967	-11.169	1.00	19.36	A	N
ATOM	1995	CA	LYS A	365	189.461	163.275	-12.581	1.00	19.00	A	C
ATOM	1996	CB	LYS A	365	188.039	163.289	-13.117	1.00	22.47	A	C
ATOM	1997	CG	LYS A	365	187.417	161.929	-13.243	1.00	23.42	A	C
ATOM	1998	CD	LYS A	365	188.039	161.224	-14.400	1.00	23.31	A	C
ATOM	1999	CE	LYS A	365	187.320	159.930	-14.693	1.00	24.89	A	C
ATOM	2000	NZ	LYS A	365	187.970	159.249	-15.851	1.00	30.35	A	N
ATOM	2001	C	LYS A	365	190.039	164.670	-12.715	1.00	18.75	A	C
ATOM	2002	O	LYS A	365	189.654	165.568	-11.956	1.00	15.64	A	O
ATOM	2003	N	HIS A	366	190.949	164.850	-13.676	1.00	17.07	A	N
ATOM	2004	CA	HIS A	366	191.568	166.150	-13.920	1.00	17.25	A	C
ATOM	2005	CB	HIS A	366	192.611	166.038	-15.043	1.00	15.66	A	C
ATOM	2006	CG	HIS A	366	193.302	167.331	-15.352	1.00	18.71	A	C
ATOM	2007	CD2	HIS A	366	194.437	167.877	-14.849	1.00	17.17	A	C
ATOM	2008	ND1	HIS A	366	192.763	168.283	-16.194	1.00	19.79	A	N
ATOM	2009	CE1	HIS A	366	193.530	169.361	-16.187	1.00	18.47	A	C
ATOM	2010	NE2	HIS A	366	194.552	169.141	-15.378	1.00	18.20	A	N
ATOM	2011	C	HIS A	366	190.493	167.186	-14.291	1.00	17.88	A	C
ATOM	2012	O	HIS A	366	190.553	168.334	-13.864	1.00	14.94	A	O
ATOM	2013	N	ASN A	367	189.500	166.769	-15.071	1.00	19.37	A	N
ATOM	2014	CA	ASN A	367	188.436	167.676	-15.490	1.00	22.11	A	C
ATOM	2015	CB	ASN A	367	187.841	167.205	-16.823	1.00	24.11	A	C
ATOM	2016	CG	ASN A	367	186.929	168.246	-17.452	1.00	29.29	A	C
ATOM	2017	OD1	ASN A	367	185.990	168.718	-16.827	1.00	34.30	A	O
ATOM	2018	ND2	ASN A	367	187.209	168.611	-18.688	1.00	31.42	A	N
ATOM	2019	C	ASN A	367	187.348	167.721	-14.412	1.00	22.00	A	C
ATOM	2020	O	ASN A	367	186.644	166.739	-14.198	1.00	21.37	A	O
ATOM	2021	N	PRO A	368	187.174	168.881	-13.751	1.00	22.13	A	N
ATOM	2022	CD	PRO A	368	187.763	170.174	-14.151	1.00	21.11	A	C
ATOM	2023	CA	PRO A	368	186.181	169.073	-12.682	1.00	21.45	A	C

ATOM	2024	CB	PRO A	368	186.292	170.571	-12.377	1.00	23.08	A	C
ATOM	2025	CG	PRO A	368	187.705	170.942	-12.864	1.00	19.70	A	C
ATOM	2026	C	PRO A	368	184.755	168.638	-13.047	1.00	22.70	A	C
ATOM	2027	O	PRO A	368	184.016	168.091	-12.209	1.00	21.09	A	O
ATOM	2028	N	SER A	369	184.386	168.865	-14.303	1.00	21.10	A	N
ATOM	2029	CA	SER A	369	183.068	168.492	-14.818	1.00	25.15	A	C
ATOM	2030	CB	SER A	369	182.919	168.982	-16.263	1.00	25.61	A	C
ATOM	2031	OG	SER A	369	183.115	170.391	-16.341	1.00	37.93	A	O
ATOM	2032	C	SER A	369	182.809	166.986	-14.785	1.00	23.28	A	C
ATOM	2033	O	SER A	369	181.685	166.555	-14.591	1.00	26.91	A	O
ATOM	2034	N	GLN A	370	183.848	166.196	-14.995	1.00	20.71	A	N
ATOM	2035	CA	GLN A	370	183.744	164.749	-15.009	1.00	21.53	A	C
ATOM	2036	CB	GLN A	370	184.922	164.172	-15.785	1.00	24.23	A	C
ATOM	2037	CG	GLN A	370	184.674	164.178	-17.279	1.00	31.18	A	C
ATOM	2038	CD	GLN A	370	185.948	164.183	-18.045	1.00	38.83	A	C
ATOM	2039	OE1	GLN A	370	186.879	163.380	-17.767	1.00	41.58	A	O
ATOM	2040	NE2	GLN A	370	186.033	165.098	-19.038	1.00	43.83	A	N
ATOM	2041	C	GLN A	370	183.688	164.073	-13.665	1.00	20.69	A	C
ATOM	2042	O	GLN A	370	183.444	162.864	-13.600	1.00	19.42	A	O
ATOM	2043	N	ARG A	371	183.940	164.804	-12.585	1.00	18.88	A	N
ATOM	2044	CA	ARG A	371	183.906	164.189	-11.252	1.00	21.24	A	C
ATOM	2045	CB	ARG A	371	184.612	165.072	-10.231	1.00	17.55	A	C
ATOM	2046	CG	ARG A	371	186.104	165.158	-10.394	1.00	15.36	A	C
ATOM	2047	CD	ARG A	371	186.643	166.286	-9.564	1.00	11.86	A	C
ATOM	2048	NE	ARG A	371	187.913	166.739	-10.108	1.00	12.57	A	N
ATOM	2049	CZ	ARG A	371	188.440	167.951	-9.938	1.00	14.14	A	C
ATOM	2050	NH1	ARG A	371	187.817	168.878	-9.216	1.00	10.91	A	N
ATOM	2051	NH2	ARG A	371	189.583	168.257	-10.545	1.00	9.48	A	N
ATOM	2052	C	ARG A	371	182.440	164.038	-10.854	1.00	22.37	A	C
ATOM	2053	O	ARG A	371	181.601	164.841	-11.176	1.00	22.50	A	O
ATOM	2054	N	PRO A	372	182.141	162.957	-10.111	1.00	23.64	A	N
ATOM	2055	CD	PRO A	372	183.165	162.051	-9.512	1.00	23.75	A	C
ATOM	2056	CA	PRO A	372	180.757	162.663	-9.653	1.00	21.80	A	C
ATOM	2057	CB	PRO A	372	180.923	161.269	-9.007	1.00	22.29	A	C
ATOM	2058	CG	PRO A	372	182.365	161.227	-8.548	1.00	22.92	A	C
ATOM	2059	C	PRO A	372	180.160	163.726	-8.739	1.00	21.72	A	C
ATOM	2060	O	PRO A	372	180.875	164.579	-8.217	1.00	23.11	A	O
ATOM	2061	N	MET A	373	178.840	163.740	-8.654	1.00	20.67	A	N
ATOM	2062	CA	MET A	373	178.153	164.668	-7.731	1.00	19.68	A	C
ATOM	2063	CB	MET A	373	176.674	164.841	-8.137	1.00	25.32	A	C
ATOM	2064	CG	MET A	373	176.470	165.598	-9.397	1.00	29.58	A	C
ATOM	2065	SD	MET A	373	177.274	167.224	-9.216	1.00	44.08	A	S
ATOM	2066	CE	MET A	373	175.850	168.314	-8.571	1.00	34.35	A	C
ATOM	2067	C	MET A	373	178.231	163.942	-6.368	1.00	18.77	A	C
ATOM	2068	O	MET A	373	178.518	162.750	-6.337	1.00	14.31	A	O
ATOM	2069	N	LEU A	374	177.985	164.639	-5.257	1.00	16.82	A	N
ATOM	2070	CA	LEU A	374	178.041	163.984	-3.959	1.00	17.05	A	C
ATOM	2071	CB	LEU A	374	177.959	165.010	-2.820	1.00	15.61	A	C
ATOM	2072	CG	LEU A	374	179.224	165.888	-2.751	1.00	17.98	A	C
ATOM	2073	CD1	LEU A	374	178.940	167.269	-2.145	1.00	8.94	A	C
ATOM	2074	CD2	LEU A	374	180.290	165.125	-1.973	1.00	12.26	A	C
ATOM	2075	C	LEU A	374	176.934	162.915	-3.837	1.00	18.65	A	C
ATOM	2076	O	LEU A	374	177.122	161.885	-3.201	1.00	19.21	A	O
ATOM	2077	N	ARG A	375	175.804	163.167	-4.504	1.00	18.78	A	N
ATOM	2078	CA	ARG A	375	174.657	162.248	-4.510	1.00	20.13	A	C
ATOM	2079	CB	ARG A	375	173.504	162.813	-5.210	1.00	21.87	A	C
ATOM	2080	C	ARG A	375	175.033	160.942	-5.178	1.00	21.00	A	C
ATOM	2081	O	ARG A	375	174.457	159.916	-4.909	1.00	21.05	A	O
ATOM	2082	N	GLU A	376	175.970	161.009	-6.106	1.00	23.11	A	N
ATOM	2083	CA	GLU A	376	176.419	159.788	-6.763	1.00	23.55	A	C
ATOM	2084	CB	GLU A	376	177.142	160.139	-8.053	1.00	24.82	A	C
ATOM	2085	CG	GLU A	376	176.400	161.110	-8.977	1.00	32.25	A	C
ATOM	2086	CD	GLU A	376	177.239	161.561	-10.206	1.00	34.95	A	C
ATOM	2087	OE1	GLU A	376	177.030	162.670	-10.770	1.00	37.06	A	O
ATOM	2088	OE2	GLU A	376	178.110	160.783	-10.630	1.00	37.87	A	O
ATOM	2089	C	GLU A	376	177.380	158.962	-5.852	1.00	23.36	A	O
ATOM	2090	O	GLU A	376	177.448	157.712	-5.874	1.00	25.32	A	C
ATOM	2091	N	VAL A	377	178.204	159.683	-5.113	1.00	20.65	A	N
ATOM	2092	CA	VAL A	377	179.168	159.065	-4.241	1.00	19.06	A	C
ATOM	2093	CB	VAL A	377	180.021	160.117	-3.550	1.00	20.25	A	C

ATOM	2094	CG1	VAL A	377	180.772	159.513	-2.415	1.00	14.07	A	C
ATOM	2095	CG2	VAL A	377	180.949	160.762	-4.587	1.00	16.78	A	C
ATOM	2096	C	VAL A	377	178.386	158.284	-3.229	1.00	20.23	A	C
ATOM	2097	O	VAL A	377	178.647	157.099	-3.037	1.00	20.59	A	O
ATOM	2098	N	LEU A	378	177.392	158.937	-2.620	1.00	20.07	A	N
ATOM	2099	CA	LEU A	378	176.526	158.314	-1.619	1.00	20.48	A	C
ATOM	2100	CB	LEU A	378	175.514	159.346	-1.107	1.00	19.33	A	C
ATOM	2101	CG	LEU A	378	175.794	160.087	0.237	1.00	25.33	A	C
ATOM	2102	CD1	LEU A	378	177.197	159.794	0.722	1.00	23.60	A	C
ATOM	2103	CD2	LEU A	378	175.575	161.610	0.073	1.00	20.05	A	C
ATOM	2104	C	LEU A	378	175.812	157.030	-2.120	1.00	22.64	A	C
ATOM	2105	O	LEU A	378	175.497	156.130	-1.318	1.00	21.93	A	O
ATOM	2106	N	GLU A	379	175.612	156.930	-3.435	1.00	19.85	A	N
ATOM	2107	CA	GLU A	379	174.972	155.756	-4.020	1.00	24.21	A	C
ATOM	2108	CB	GLU A	379	174.038	156.118	-5.171	1.00	29.18	A	C
ATOM	2109	CG	GLU A	379	173.003	157.140	-4.872	1.00	37.87	A	C
ATOM	2110	CD	GLU A	379	172.172	157.458	-6.104	1.00	44.63	A	C
ATOM	2111	OE1	GLU A	379	172.774	157.586	-7.214	1.00	47.26	A	O
ATOM	2112	OE2	GLU A	379	170.924	157.587	-5.961	1.00	46.30	A	O
ATOM	2113	C	GLU A	379	175.989	154.817	-4.623	1.00	22.35	A	C
ATOM	2114	O	GLU A	379	175.607	153.788	-5.180	1.00	22.07	A	O
ATOM	2115	N	HIS A	380	177.268	155.165	-4.555	1.00	20.53	A	N
ATOM	2116	CA	HIS A	380	178.278	154.301	-5.145	1.00	20.63	A	C
ATOM	2117	CB	HIS A	380	179.683	154.909	-4.995	1.00	15.41	A	C
ATOM	2118	CG	HIS A	380	180.717	154.184	-5.800	1.00	17.05	A	C
ATOM	2119	CD2	HIS A	380	181.309	154.493	-6.982	1.00	16.91	A	C
ATOM	2120	ND1	HIS A	380	181.129	152.901	-5.498	1.00	16.78	A	C
ATOM	2121	CE1	HIS A	380	181.918	152.453	-6.459	1.00	16.66	A	N
ATOM	2122	NE2	HIS A	380	182.042	153.399	-7.372	1.00	15.37	A	N
ATOM	2123	C	HIS A	380	178.209	152.904	-4.509	1.00	20.19	A	C
ATOM	2124	O	HIS A	380	178.129	152.774	-3.293	1.00	21.40	A	O
ATOM	2125	N	PRO A	381	178.231	151.843	-5.333	1.00	21.11	A	N
ATOM	2126	CD	PRO A	381	178.446	151.912	-6.792	1.00	20.62	A	C
ATOM	2127	CA	PRO A	381	178.165	150.440	-4.874	1.00	22.07	A	C
ATOM	2128	CB	PRO A	381	178.512	149.635	-6.139	1.00	23.24	A	C
ATOM	2129	CG	PRO A	381	177.998	150.510	-7.246	1.00	25.34	A	C
ATOM	2130	C	PRO A	381	179.103	150.109	-3.708	1.00	20.71	A	C
ATOM	2131	O	PRO A	381	178.722	149.416	-2.762	1.00	22.12	A	O
ATOM	2132	N	TRP A	382	180.330	150.607	-3.783	1.00	19.08	A	N
ATOM	2133	CA	TRP A	382	181.307	150.367	-2.733	1.00	18.09	A	C
ATOM	2134	CB	TRP A	382	182.667	150.885	-3.160	1.00	16.26	A	C
ATOM	2135	CG	TRP A	382	183.757	150.595	-2.180	1.00	17.75	A	C
ATOM	2136	CD2	TRP A	382	184.370	151.524	-1.271	1.00	17.24	A	C
ATOM	2137	CE2	TRP A	382	185.366	150.816	-0.559	1.00	16.47	A	C
ATOM	2138	CE3	TRP A	382	184.165	152.682	-0.983	1.00	17.55	A	C
ATOM	2139	CD1	TRP A	382	184.389	149.398	-1.986	1.00	14.76	A	C
ATOM	2140	NE1	TRP A	382	185.358	149.524	-1.022	1.00	16.65	A	N
ATOM	2141	C22	TRP A	382	186.168	151.422	0.421	1.00	15.85	A	C
ATOM	2142	CZ3	TRP A	382	184.965	153.487	-0.002	1.00	19.06	A	C
ATOM	2143	CH2	TRP A	382	185.951	152.754	0.687	1.00	17.35	A	C
ATOM	2144	C	TRP A	382	180.898	151.042	-1.431	1.00	18.11	A	C
ATOM	2145	O	TRP A	382	181.045	150.467	-0.352	1.00	19.08	A	O
ATOM	2146	N	ILE A	383	180.391	152.266	-1.533	1.00	18.03	A	N
ATOM	2147	CA	ILE A	383	179.963	153.003	-0.354	1.00	17.34	A	C
ATOM	2148	CB	ILE A	383	179.585	154.460	-0.709	1.00	15.70	A	C
ATOM	2149	CG2	ILE A	383	178.985	155.178	0.495	1.00	13.48	A	C
ATOM	2150	CG1	ILE A	383	180.841	155.212	-1.132	1.00	8.79	A	C
ATOM	2151	CD1	ILE A	383	181.809	155.455	0.019	1.00	11.19	A	C
ATOM	2152	C	ILE A	383	178.790	152.312	0.324	1.00	19.72	A	C
ATOM	2153	O	ILE A	383	178.851	152.044	1.523	1.00	21.11	A	C
ATOM	2154	N	THR A	384	177.739	151.994	-0.428	1.00	18.67	A	N
ATOM	2155	CA	THR A	384	176.585	151.336	0.180	1.00	21.04	A	C
ATOM	2156	CB	THR A	384	175.352	151.287	-0.784	1.00	22.27	A	C
ATOM	2157	OG1	THR A	384	175.657	150.457	-1.912	1.00	23.10	A	O
ATOM	2158	CG2	THR A	384	174.969	152.706	-1.271	1.00	15.14	A	C
ATOM	2159	C	THR A	384	176.868	149.921	0.721	1.00	20.77	A	C
ATOM	2160	O	THR A	384	176.220	149.496	1.683	1.00	24.40	A	O
ATOM	2161	N	ALA A	385	177.835	149.206	0.138	1.00	18.85	A	N
ATOM	2162	CA	ALA A	385	178.195	147.848	0.598	1.00	16.58	A	C
ATOM	2163	CB	ALA A	385	178.996	147.119	-0.481	1.00	8.89	A	C

ATOM	2164	C	ALA A	385	179.021	147.877	1.890	1.00	19.30	A	C
ATOM	2165	O	ALA A	385	178.987	146.950	2.699	1.00	17.69	A	O
ATOM	2166	N	ASN A	386	179.748	148.966	2.104	1.00	23.78	A	N
ATOM	2167	CA	ASN A	386	180.614	149.059	3.274	1.00	24.44	A	C
ATOM	2168	CB	ASN A	386	182.039	149.240	2.783	1.00	22.82	A	C
ATOM	2169	CG	ASN A	386	182.509	148.051	1.997	1.00	22.92	A	C
ATOM	2170	OD1	ASN A	386	182.581	146.947	2.539	1.00	23.56	A	O
ATOM	2171	ND2	ASN A	386	182.807	148.251	0.706	1.00	20.68	A	N
ATOM	2172	C	ASN A	386	180.305	150.133	4.291	1.00	25.32	A	C
ATOM	2173	O	ASN A	386	180.891	150.175	5.366	1.00	25.70	A	O
ATOM	2174	N	SER A	387	179.385	151.009	3.950	1.00	28.67	A	N
ATOM	2175	CA	SER A	387	179.063	152.111	4.823	1.00	30.65	A	C
ATOM	2176	CB	SER A	387	178.507	153.232	3.955	1.00	29.51	A	C
ATOM	2177	OG	SER A	387	178.208	154.364	4.724	1.00	35.78	A	O
ATOM	2178	C	SER A	387	178.063	151.687	5.890	1.00	32.67	A	C
ATOM	2179	O	SER A	387	177.162	150.889	5.535	1.00	35.02	A	O
ATOM	2180	OXT	SER A	387	178.173	152.164	7.055	1.00	35.90	A	O
ATOM	2181	CB	SER B	7	187.273	195.899	10.921	1.00	30.72	B	C
ATOM	2182	OG	SER B	7	185.919	195.490	11.062	1.00	28.92	B	O
ATOM	2183	C	SER B	7	187.728	193.792	12.227	1.00	32.69	B	C
ATOM	2184	O	SER B	7	187.932	192.918	11.331	1.00	33.35	B	O
ATOM	2185	N	SER B	7	189.583	195.368	11.576	1.00	34.34	B	N
ATOM	2186	CA	SER B	7	188.150	195.268	12.001	1.00	32.37	B	C
ATOM	2187	N	TYR B	8	187.139	193.527	13.402	1.00	28.10	B	N
ATOM	2188	CA	TYR B	8	186.671	192.188	13.775	1.00	25.10	B	C
ATOM	2189	CB	TYR B	8	187.465	191.681	14.999	1.00	22.64	B	C
ATOM	2190	CG	TYR B	8	188.962	191.579	14.731	1.00	22.03	B	C
ATOM	2191	CD1	TYR B	8	189.806	192.667	14.982	1.00	19.79	B	C
ATOM	2192	CE1	TYR B	8	191.153	192.623	14.642	1.00	19.33	B	C
ATOM	2193	CD2	TYR B	8	189.524	190.435	14.128	1.00	18.09	B	C
ATOM	2194	CE2	TYR B	8	190.881	190.391	13.775	1.00	18.91	B	C
ATOM	2195	CZ	TYR B	8	191.686	191.488	14.038	1.00	20.94	B	C
ATOM	2196	OH	TYR B	8	193.020	191.444	13.712	1.00	23.31	B	O
ATOM	2197	C	TYR B	8	185.151	192.143	14.045	1.00	24.33	B	C
ATOM	2198	O	TYR B	8	184.677	191.422	14.936	1.00	23.49	B	O
ATOM	2199	N	SER B	9	184.410	192.931	13.263	1.00	24.49	B	N
ATOM	2200	CA	SER B	9	182.945	193.017	13.314	1.00	24.46	B	C
ATOM	2201	CB	SER B	9	182.455	194.444	13.006	1.00	23.56	B	C
ATOM	2202	OG	SER B	9	182.756	195.336	14.059	1.00	29.98	B	O
ATOM	2203	C	SER B	9	182.426	192.085	12.229	1.00	22.36	B	C
ATOM	2204	O	SER B	9	182.469	192.408	11.035	1.00	22.10	B	O
ATOM	2205	N	TYR B	10	181.926	190.938	12.653	1.00	20.97	B	N
ATOM	2206	CA	TYR B	10	181.434	189.932	11.728	1.00	21.80	B	C
ATOM	2207	CB	TYR B	10	182.099	188.582	12.063	1.00	21.23	B	C
ATOM	2208	CG	TYR B	10	183.618	188.617	12.082	1.00	23.30	B	C
ATOM	2209	CD1	TYR B	10	184.345	187.694	12.836	1.00	24.95	B	C
ATOM	2210	CE1	TYR B	10	185.744	187.683	12.816	1.00	25.40	B	C
ATOM	2211	CD2	TYR B	10	184.331	189.542	11.311	1.00	23.55	B	C
ATOM	2212	CE2	TYR B	10	185.725	189.541	11.285	1.00	24.34	B	C
ATOM	2213	CZ	TYR B	10	186.421	188.600	12.036	1.00	26.19	B	C
ATOM	2214	OH	TYR B	10	187.800	188.526	11.956	1.00	31.92	B	O
ATOM	2215	C	TYR B	10	179.918	189.807	11.832	1.00	21.84	B	C
ATOM	2216	O	TYR B	10	179.334	190.098	12.872	1.00	22.91	B	O
ATOM	2217	N	ASP B	11	179.283	189.372	10.754	1.00	19.80	B	N
ATOM	2218	CA	ASP B	11	177.842	189.173	10.751	1.00	19.63	B	C
ATOM	2219	CB	ASP B	11	177.308	189.274	9.310	1.00	21.09	B	C
ATOM	2220	CG	ASP B	11	175.778	189.141	9.217	1.00	23.91	B	C
ATOM	2221	OD1	ASP B	11	175.093	188.957	10.256	1.00	24.67	B	O
ATOM	2222	OD2	ASP B	11	175.264	189.221	8.077	1.00	22.90	B	O
ATOM	2223	C	ASP B	11	177.653	187.756	11.297	1.00	19.67	B	O
ATOM	2224	O	ASP B	11	177.383	186.820	10.565	1.00	20.37	B	O
ATOM	2225	N	ALA B	12	177.844	187.593	12.590	1.00	19.26	B	N
ATOM	2226	CA	ALA B	12	177.696	186.285	13.174	1.00	19.72	B	C
ATOM	2227	CB	ALA B	12	178.993	185.498	13.013	1.00	20.60	B	C
ATOM	2228	C	ALA B	12	177.337	186.502	14.640	1.00	20.60	B	C
ATOM	2229	O	ALA B	12	177.450	187.632	15.149	1.00	20.41	B	O
ATOM	2230	N	PRO B	13	176.918	185.448	15.350	1.00	20.13	B	N
ATOM	2231	CD	PRO B	13	176.769	184.055	14.907	1.00	17.56	B	C
ATOM	2232	CA	PRO B	13	176.545	185.608	16.761	1.00	16.88	B	C
ATOM	2233	CB	PRO B	13	175.959	184.246	17.137	1.00	16.25	B	C

ATOM	2234	CG	PRO	B	13	175.670	183.563	15.811	1.00	18.64	B	C
ATOM	2235	C	PRO	B	13	177.663	186.014	17.728	1.00	17.09	B	C
ATOM	2236	O	PRO	B	13	178.797	185.573	17.590	1.00	17.90	B	O
ATOM	2237	N	SER	B	14	177.334	186.839	18.720	1.00	17.14	B	N
ATOM	2238	CA	SER	B	14	178.294	187.258	19.739	1.00	20.00	B	C
ATOM	2239	CB	SER	B	14	179.094	188.499	19.294	1.00	19.42	B	C
ATOM	2240	OG	SER	B	14	178.288	189.384	18.544	1.00	30.47	B	O
ATOM	2241	C	SER	B	14	177.587	187.518	21.069	1.00	18.32	B	C
ATOM	2242	O	SER	B	14	178.199	187.968	22.056	1.00	14.51	B	O
ATOM	2243	N	ASP	B	15	176.297	187.215	21.076	1.00	18.48	B	N
ATOM	2244	CA	ASP	B	15	175.445	187.376	22.248	1.00	23.79	B	C
ATOM	2245	CB	ASP	B	15	173.991	187.526	21.783	1.00	30.49	B	C
ATOM	2246	CG	ASP	B	15	173.676	188.932	21.226	1.00	39.83	B	C
ATOM	2247	OD1	ASP	B	15	174.558	189.605	20.616	1.00	44.43	B	O
ATOM	2248	OD2	ASP	B	15	172.510	189.378	21.401	1.00	45.45	B	O
ATOM	2249	C	ASP	B	15	175.569	186.172	23.199	1.00	21.79	B	C
ATOM	2250	O	ASP	B	15	175.594	185.035	22.754	1.00	22.39	B	O
ATOM	2251	N	PHE	B	16	175.660	186.432	24.500	1.00	21.47	B	N
ATOM	2252	CA	PHE	B	16	175.756	185.373	25.514	1.00	22.21	B	C
ATOM	2253	CB	PHE	B	16	175.700	185.993	26.930	1.00	19.46	B	C
ATOM	2254	CG	PHE	B	16	175.637	184.978	28.025	1.00	18.34	B	C
ATOM	2255	CD1	PHE	B	16	176.789	184.362	28.491	1.00	18.98	B	C
ATOM	2256	CD2	PHE	B	16	174.417	184.569	28.528	1.00	15.51	B	C
ATOM	2257	CE1	PHE	B	16	176.716	183.339	29.435	1.00	18.59	B	C
ATOM	2258	CE2	PHE	B	16	174.340	183.552	29.469	1.00	15.01	B	C
ATOM	2259	CZ	PHE	B	16	175.488	182.939	29.921	1.00	15.05	B	C
ATOM	2260	C	PHE	B	16	174.542	184.448	25.301	1.00	21.16	B	C
ATOM	2261	O	PHE	B	16	173.442	184.938	25.058	1.00	21.78	B	O
ATOM	2262	N	ILE	B	17	174.739	183.135	25.370	1.00	19.97	B	N
ATOM	2263	CA	ILE	B	17	173.652	182.163	25.182	1.00	20.86	B	C
ATOM	2264	CB	ILE	B	17	173.965	181.144	24.009	1.00	21.47	B	C
ATOM	2265	CG2	ILE	B	17	172.988	179.964	24.011	1.00	11.76	B	C
ATOM	2266	CG1	ILE	B	17	173.957	181.844	22.654	1.00	16.04	B	C
ATOM	2267	CD1	ILE	B	17	174.760	181.051	21.631	1.00	18.42	B	C
ATOM	2268	C	ILE	B	17	173.478	181.318	26.439	1.00	21.56	B	C
ATOM	2269	O	ILE	B	17	174.462	180.965	27.086	1.00	23.11	B	O
ATOM	2270	N	ASN	B	18	172.227	181.002	26.778	1.00	24.87	B	N
ATOM	2271	CA	ASN	B	18	171.893	180.143	27.928	1.00	26.79	B	C
ATOM	2272	CB	ASN	B	18	170.485	180.437	28.427	1.00	26.34	B	C
ATOM	2273	CG	ASN	B	18	170.052	179.482	29.543	1.00	30.28	B	C
ATOM	2274	OD1	ASN	B	18	170.753	178.519	29.870	1.00	30.01	B	O
ATOM	2275	ND2	ASN	B	18	168.893	179.747	30.125	1.00	28.50	B	N
ATOM	2276	C	ASN	B	18	171.911	178.718	27.373	1.00	28.06	B	C
ATOM	2277	O	ASN	B	18	170.947	178.305	26.737	1.00	31.09	B	O
ATOM	2278	N	PHE	B	19	172.969	177.950	27.616	1.00	30.32	B	N
ATOM	2279	CA	PHE	B	19	173.027	176.599	27.050	1.00	32.46	B	C
ATOM	2280	CB	PHE	B	19	174.460	176.061	27.076	1.00	27.50	B	C
ATOM	2281	CG	PHE	B	19	175.430	176.837	26.214	1.00	22.59	B	C
ATOM	2282	CD1	PHE	B	19	176.332	177.737	26.785	1.00	20.42	B	C
ATOM	2283	CD2	PHE	B	19	175.426	176.682	24.831	1.00	21.89	B	C
ATOM	2284	CE1	PHE	B	19	177.223	178.454	25.989	1.00	19.77	B	C
ATOM	2285	CE2	PHE	B	19	176.312	177.398	24.021	1.00	18.13	B	C
ATOM	2286	CZ	PHE	B	19	177.206	178.291	24.605	1.00	19.50	B	C
ATOM	2287	C	PHE	B	19	172.086	175.529	27.618	1.00	36.90	B	C
ATOM	2288	O	PHE	B	19	172.063	174.397	27.124	1.00	41.31	B	O
ATOM	2289	N	SER	B	20	171.317	175.844	28.646	1.00	41.32	B	N
ATOM	2290	CA	SER	B	20	170.402	174.824	29.142	1.00	46.46	B	C
ATOM	2291	CB	SER	B	20	170.317	174.921	30.652	1.00	47.60	B	C
ATOM	2292	OG	SER	B	20	170.456	176.275	31.032	1.00	49.62	B	C
ATOM	2293	C	SER	B	20	169.029	175.021	28.496	1.00	48.43	B	C
ATOM	2294	O	SER	B	20	168.337	174.060	28.170	1.00	50.43	B	O
ATOM	2295	N	SER	B	21	168.645	176.275	28.286	1.00	50.08	B	N
ATOM	2296	CA	SER	B	21	167.349	176.574	27.676	1.00	50.65	B	C
ATOM	2297	CB	SER	B	21	166.742	177.810	28.317	1.00	49.82	B	C
ATOM	2298	OG	SER	B	21	167.467	178.945	27.866	1.00	50.01	B	O
ATOM	2299	C	SER	B	21	167.581	176.880	26.204	1.00	51.89	B	C
ATOM	2300	O	SER	B	21	166.843	176.336	25.325	1.00	51.53	B	O
ATOM	2301	OXT	SER	B	21	168.482	177.716	25.953	1.00	53.54	B	O
ATOM	2302	CB	ASN	C	30	165.336	177.781	10.155	1.00	41.18	C	C
ATOM	2303	CG	ASN	C	30	164.486	178.568	9.178	1.00	46.58	C	C

ATOM	2304	OD1	ASN	C	30	164.828	179.693	8.808	1.00	49.62	C	O
ATOM	2305	ND2	ASN	C	30	163.363	177.973	8.740	1.00	49.11	C	N
ATOM	2306	C	ASN	C	30	167.301	179.381	10.314	1.00	36.00	C	C
ATOM	2307	O	ASN	C	30	167.202	179.731	9.143	1.00	34.36	C	O
ATOM	2308	N	ASN	C	30	165.267	179.744	11.676	1.00	37.72	C	N
ATOM	2309	CA	ASN	C	30	166.154	178.688	11.078	1.00	38.33	C	C
ATOM	2310	N	ILE	C	31	168.406	179.537	11.026	1.00	32.89	C	N
ATOM	2311	CA	ILE	C	31	169.605	180.229	10.589	1.00	28.57	C	C
ATOM	2312	CB	ILE	C	31	170.635	180.011	11.676	1.00	31.08	C	C
ATOM	2313	CG2	ILE	C	31	171.873	180.840	11.426	1.00	30.71	C	C
ATOM	2314	CG1	ILE	C	31	169.991	180.405	13.012	1.00	34.10	C	C
ATOM	2315	CD1	ILE	C	31	169.738	181.909	13.147	1.00	41.37	C	C
ATOM	2316	C	ILE	C	31	170.254	180.041	9.214	1.00	25.67	C	C
ATOM	2317	O	ILE	C	31	170.816	180.996	8.677	1.00	20.90	C	O
ATOM	2318	N	ASP	C	32	170.188	178.856	8.623	1.00	23.52	C	N
ATOM	2319	CA	ASP	C	32	170.872	178.678	7.351	1.00	24.02	C	C
ATOM	2320	CB	ASP	C	32	171.126	177.197	7.086	1.00	27.28	C	C
ATOM	2321	CG	ASP	C	32	169.858	176.423	6.805	1.00	32.74	C	C
ATOM	2322	OD1	ASP	C	32	168.852	177.009	6.338	1.00	36.15	C	O
ATOM	2323	OD2	ASP	C	32	169.884	175.202	7.039	1.00	33.71	C	O
ATOM	2324	C	ASP	C	32	170.289	179.324	6.104	1.00	23.19	C	C
ATOM	2325	O	ASP	C	32	170.804	179.126	5.001	1.00	22.55	C	O
ATOM	2326	N	SER	C	33	169.223	180.090	6.271	1.00	21.46	C	N
ATOM	2327	CA	SER	C	33	168.608	180.781	5.136	1.00	22.57	C	C
ATOM	2328	CB	SER	C	33	167.205	181.244	5.499	1.00	23.28	C	C
ATOM	2329	OG	SER	C	33	166.326	180.142	5.639	1.00	33.59	C	O
ATOM	2330	C	SER	C	33	169.448	182.002	4.805	1.00	19.49	C	C
ATOM	2331	O	SER	C	33	169.273	182.639	3.770	1.00	20.33	C	O
ATOM	2332	N	TRP	C	34	170.344	182.330	5.728	1.00	18.04	C	N
ATOM	2333	CA	TRP	C	34	171.254	183.466	5.621	1.00	16.02	C	C
ATOM	2334	CB	TRP	C	34	172.234	183.422	6.792	1.00	15.82	C	C
ATOM	2335	CG	TRP	C	34	173.240	184.531	6.836	1.00	15.40	C	C
ATOM	2336	CD2	TRP	C	34	174.599	184.462	6.404	1.00	13.15	C	C
ATOM	2337	CE2	TRP	C	34	175.180	185.735	6.640	1.00	14.42	C	C
ATOM	2338	CE3	TRP	C	34	175.387	183.451	5.843	1.00	10.87	C	C
ATOM	2339	CD1	TRP	C	34	173.052	185.801	7.302	1.00	13.49	C	C
ATOM	2340	NE1	TRP	C	34	174.212	186.530	7.189	1.00	11.42	C	N
ATOM	2341	CZ2	TRP	C	34	176.523	186.024	6.330	1.00	14.91	C	C
ATOM	2342	CZ3	TRP	C	34	176.727	183.738	5.538	1.00	12.26	C	C
ATOM	2343	CH2	TRP	C	34	177.278	185.016	5.785	1.00	10.61	C	C
ATOM	2344	C	TRP	C	34	172.022	183.499	4.299	1.00	15.62	C	C
ATOM	2345	O	TRP	C	34	172.251	184.579	3.735	1.00	16.88	C	O
ATOM	2346	N	PHE	C	35	172.435	182.324	3.819	1.00	13.45	C	N
ATOM	2347	CA	PHE	C	35	173.191	182.222	2.567	1.00	12.33	C	C
ATOM	2348	CB	PHE	C	35	173.739	180.801	2.344	1.00	8.78	C	C
ATOM	2349	CG	PHE	C	35	174.597	180.304	3.456	1.00	9.30	C	C
ATOM	2350	CD1	PHE	C	35	174.042	179.566	4.495	1.00	9.43	C	C
ATOM	2351	CD2	PHE	C	35	175.960	180.610	3.500	1.00	9.38	C	C
ATOM	2352	CE1	PHE	C	35	174.822	179.141	5.565	1.00	6.69	C	C
ATOM	2353	CE2	PHE	C	35	176.749	180.190	4.569	1.00	8.62	C	C
ATOM	2354	CZ	PHE	C	35	176.174	179.455	5.602	1.00	10.55	C	C
ATOM	2355	C	PHE	C	35	172.367	182.623	1.351	1.00	13.51	C	C
ATOM	2356	O	PHE	C	35	172.779	183.502	0.597	1.00	13.63	C	O
ATOM	2357	N	ALA	C	36	171.207	181.997	1.153	1.00	14.52	C	N
ATOM	2358	CA	ALA	C	36	170.392	182.349	-0.008	1.00	18.05	C	C
ATOM	2359	CB	ALA	C	36	169.246	181.349	-0.209	1.00	13.28	C	C
ATOM	2360	C	ALA	C	36	169.844	183.775	0.103	1.00	18.08	C	C
ATOM	2361	O	ALA	C	36	169.797	184.500	-0.899	1.00	20.25	C	O
ATOM	2362	N	GLU	C	37	169.458	184.192	1.307	1.00	18.61	C	N
ATOM	2363	CA	GLU	C	37	168.905	185.536	1.505	1.00	21.91	C	C
ATOM	2364	CB	GLU	C	37	168.391	185.686	2.933	1.00	22.41	C	C
ATOM	2365	CG	GLU	C	37	167.103	184.901	3.240	1.00	24.75	C	C
ATOM	2366	CD	GLU	C	37	166.619	185.133	4.681	1.00	30.55	C	C
ATOM	2367	OE1	GLU	C	37	167.473	185.511	5.529	1.00	31.00	C	O
ATOM	2368	OE2	GLU	C	37	165.414	184.932	4.976	1.00	30.11	C	O
ATOM	2369	C	GLU	C	37	169.913	186.649	1.194	1.00	22.74	C	C
ATOM	2370	O	GLU	C	37	169.561	187.754	0.791	1.00	22.40	C	O
ATOM	2371	N	LYS	C	38	171.181	186.332	1.375	1.00	25.80	C	N
ATOM	2372	CA	LYS	C	38	172.269	187.252	1.114	1.00	24.79	C	C
ATOM	2373	CB	LYS	C	38	173.438	186.831	1.982	1.00	27.15	C	C

ATOM	2374	CG	LYS	C	38	174.708	187.488	1.649	1.00	30.16	C	C
ATOM	2375	CD	LYS	C	38	175.776	187.057	2.622	1.00	31.96	C	C
ATOM	2376	CE	LYS	C	38	177.007	187.927	2.391	1.00	35.28	C	C
ATOM	2377	NZ	LYS	C	38	178.028	187.735	3.456	1.00	40.31	C	N
ATOM	2378	C	LYS	C	38	172.625	187.194	-0.373	1.00	25.05	C	C
ATOM	2379	O	LYS	C	38	173.062	188.177	-0.969	1.00	23.54	C	O
ATOM	2380	N	ALA	C	39	172.418	186.032	-0.975	1.00	23.76	C	N
ATOM	2381	CA	ALA	C	39	172.687	185.849	-2.400	1.00	23.35	C	C
ATOM	2382	CB	ALA	C	39	172.656	184.343	-2.762	1.00	20.98	C	C
ATOM	2383	C	ALA	C	39	171.642	186.576	-3.245	1.00	24.77	C	C
ATOM	2384	O	ALA	C	39	171.950	187.112	-4.318	1.00	24.28	C	O
ATOM	2385	N	ASN	C	40	170.403	186.592	-2.754	1.00	23.38	C	N
ATOM	2386	CA	ASN	C	40	169.306	187.210	-3.480	1.00	23.68	C	C
ATOM	2387	CB	ASN	C	40	167.993	186.526	-3.137	1.00	18.03	C	C
ATOM	2388	CG	ASN	C	40	168.024	185.035	-3.395	1.00	17.89	C	C
ATOM	2389	OD1	ASN	C	40	168.646	184.553	-4.351	1.00	18.06	C	O
ATOM	2390	ND2	ASN	C	40	167.325	184.287	-2.545	1.00	16.76	C	N
ATOM	2391	C	ASN	C	40	169.122	188.701	-3.279	1.00	25.17	C	C
ATOM	2392	O	ASN	C	40	168.413	189.332	-4.052	1.00	27.11	C	O
ATOM	2393	N	LEU	C	41	169.731	189.268	-2.246	1.00	26.95	C	N
ATOM	2394	CA	LEU	C	41	169.600	190.709	-1.965	1.00	29.31	C	C
ATOM	2395	CB	LEU	C	41	170.380	191.047	-0.705	1.00	29.88	C	C
ATOM	2396	CG	LEU	C	41	169.816	192.308	-0.057	1.00	30.53	C	C
ATOM	2397	CD1	LEU	C	41	168.319	192.148	0.221	1.00	30.41	C	C
ATOM	2398	CD2	LEU	C	41	170.580	192.558	1.209	1.00	29.64	C	C
ATOM	2399	C	LEU	C	41	170.091	191.589	-3.120	1.00	29.84	C	C
ATOM	2400	O	LEU	C	41	171.051	191.230	-3.787	1.00	30.13	C	O
ATOM	2401	N	GLU	C	42	169.487	192.763	-3.312	1.00	32.17	C	N
ATOM	2402	CA	GLU	C	42	169.851	193.627	-4.439	1.00	35.33	C	C
ATOM	2403	CB	GLU	C	42	168.583	193.847	-5.286	1.00	33.50	C	C
ATOM	2404	CG	GLU	C	42	167.819	192.560	-5.616	1.00	32.30	C	C
ATOM	2405	CD	GLU	C	42	166.473	192.784	-6.334	1.00	34.80	C	C
ATOM	2406	OE1	GLU	C	42	165.892	193.892	-6.241	1.00	34.22	C	O
ATOM	2407	OE2	GLU	C	42	165.980	191.829	-6.987	1.00	33.99	C	O
ATOM	2408	C	GLU	C	42	170.537	194.977	-4.190	1.00	37.36	C	C
ATOM	2409	O	GLU	C	42	170.487	195.539	-3.109	1.00	38.22	C	O
ATOM	2410	N	ASN	C	43	171.220	195.457	-5.221	1.00	43.15	C	N
ATOM	2411	CA	ASN	C	43	171.863	196.790	-5.266	1.00	48.74	C	C
ATOM	2412	CB	ASN	C	43	172.611	197.184	-3.967	1.00	48.84	C	C
ATOM	2413	CG	ASN	C	43	173.769	196.255	-3.632	1.00	50.97	C	C
ATOM	2414	OD1	ASN	C	43	173.749	195.054	-3.970	1.00	50.34	C	O
ATOM	2415	ND2	ASN	C	43	174.793	196.804	-2.939	1.00	51.10	C	N
ATOM	2416	C	ASN	C	43	172.809	196.704	-6.455	1.00	52.67	C	C
ATOM	2417	O	ASN	C	43	172.493	197.379	-7.493	1.00	54.34	C	O
ATOM	2418	OXT	ASN	C	43	173.808	195.931	-6.344	1.00	55.98	C	O
ATOM	2419	PB	ADP	S	531	193.788	175.824	12.432	1.00	20.87	S	P
ATOM	2420	O1B	ADP	S	531	193.884	176.352	13.792	1.00	32.28	S	O
ATOM	2421	O2B	ADP	S	531	193.566	176.837	11.394	1.00	26.12	S	O
ATOM	2422	O3B	ADP	S	531	194.979	174.908	12.132	1.00	31.89	S	O
ATOM	2423	PA	ADP	S	531	191.748	174.063	13.545	1.00	18.35	S	P
ATOM	2424	O1A	ADP	S	531	190.611	174.901	14.032	1.00	26.99	S	O
ATOM	2425	O2A	ADP	S	531	191.357	172.755	12.954	1.00	26.80	S	O
ATOM	2426	O3A	ADP	S	531	192.532	174.874	12.450	1.00	28.14	S	O
ATOM	2427	O5*	ADP	S	531	192.642	173.906	14.839	1.00	22.21	S	O
ATOM	2428	C5*	ADP	S	531	193.768	172.965	14.869	1.00	20.71	S	C
ATOM	2429	C4*	ADP	S	531	193.594	171.623	15.640	1.00	17.30	S	C
ATOM	2430	O4*	ADP	S	531	192.923	171.842	16.897	1.00	18.08	S	O
ATOM	2431	C3*	ADP	S	531	192.751	170.494	14.997	1.00	17.80	S	C
ATOM	2432	O3*	ADP	S	531	193.561	169.824	14.038	1.00	18.78	S	O
ATOM	2433	C2*	ADP	S	531	192.369	169.659	16.218	1.00	19.78	S	C
ATOM	2434	O2*	ADP	S	531	193.423	168.749	16.615	1.00	19.10	S	O
ATOM	2435	C1*	ADP	S	531	192.152	170.704	17.312	1.00	18.01	S	C
ATOM	2436	N9	ADP	S	531	190.711	171.169	17.445	1.00	18.12	S	N
ATOM	2437	C8	ADP	S	531	190.169	172.237	16.808	1.00	20.72	S	C
ATOM	2438	N7	ADP	S	531	188.677	172.431	17.108	1.00	19.94	S	N
ATOM	2439	C5	ADP	S	531	188.596	171.408	17.961	1.00	15.87	S	C
ATOM	2440	C6	ADP	S	531	187.377	171.071	18.652	1.00	14.49	S	C
ATOM	2441	N6	ADP	S	531	186.260	171.696	18.563	1.00	9.66	S	N
ATOM	2442	N1	ADP	S	531	187.474	169.935	19.454	1.00	13.01	S	N
ATOM	2443	C2	ADP	S	531	188.642	169.198	19.595	1.00	14.56	S	C

ATOM	2444	N3	ADP	S	531	189.773	169.512	18.982	1.00	17.25	S	N
ATOM	2445	C4	ADP	S	531	189.716	170.610	18.162	1.00	16.09	S	C
ATOM	2446	MG	MG	X	1	192.801	173.013	10.897	1.00	18.98	X	MG+2
ATOM	2447	MG	MG	X	2	192.933	178.461	10.215	1.00	21.17	X	MG+2
ATOM	2448	MG	MG	X	3	174.135	172.090	-6.081	1.00	37.43	X	MG+2
ATOM	2449	S	SO4	Y	1	175.520	167.060	-4.810	1.00	40.27	Y	S
ATOM	2450	O1	SO4	Y	1	175.005	168.134	-3.755	1.00	40.61	Y	O
ATOM	2451	O2	SO4	Y	1	176.918	167.395	-5.118	1.00	40.85	Y	O
ATOM	2452	O3	SO4	Y	1	175.333	165.874	-4.319	1.00	45.29	Y	O
ATOM	2453	O4	SO4	Y	1	174.705	167.387	-6.003	1.00	46.53	Y	O
ATOM	2454	S	SO4	Y	2	196.317	160.442	22.149	1.00	52.91	Y	S
ATOM	2455	O1	SO4	Y	2	194.902	160.702	22.904	1.00	53.25	Y	O
ATOM	2456	O2	SO4	Y	2	197.156	161.615	22.484	1.00	52.23	Y	O
ATOM	2457	O3	SO4	Y	2	196.808	159.261	22.506	1.00	50.45	Y	O
ATOM	2458	O4	SO4	Y	2	195.932	160.567	20.717	1.00	53.17	Y	O
ATOM	2459	S	SO4	Y	3	184.237	187.281	-0.473	1.00	69.64	Y	S
ATOM	2460	O1	SO4	Y	3	182.905	188.209	-0.613	1.00	70.60	Y	O
ATOM	2461	O2	SO4	Y	3	185.274	188.143	0.172	1.00	70.08	Y	O
ATOM	2462	O3	SO4	Y	3	183.925	186.181	0.170	1.00	69.68	Y	O
ATOM	2463	O4	SO4	Y	3	184.641	187.119	-1.915	1.00	70.92	Y	O
ATOM	2464	OH2	WAT	W	1	179.030	185.642	-6.293	1.00	8.84	W	O
ATOM	2465	OH2	WAT	W	2	194.313	179.202	-8.444	1.00	16.79	W	O
ATOM	2466	OH2	WAT	W	3	192.921	180.168	8.084	1.00	30.46	W	O
ATOM	2467	OH2	WAT	W	4	187.994	175.656	4.804	1.00	16.00	W	O
ATOM	2468	OH2	WAT	W	5	178.455	169.305	-5.499	1.00	13.87	W	O
ATOM	2469	OH2	WAT	W	6	197.111	180.066	22.244	1.00	15.19	W	O
ATOM	2470	OH2	WAT	W	7	180.414	171.384	22.814	1.00	8.30	W	O
ATOM	2471	OH2	WAT	W	8	188.179	184.543	-6.390	1.00	10.24	W	O
ATOM	2472	OH2	WAT	W	9	188.183	181.649	3.509	1.00	23.15	W	O
ATOM	2473	OH2	WAT	W	10	185.065	157.114	14.496	1.00	16.39	W	O
ATOM	2474	OH2	WAT	W	11	192.854	158.543	18.441	1.00	20.42	W	O
ATOM	2475	OH2	WAT	W	12	194.144	171.703	11.618	1.00	13.61	W	O
ATOM	2476	OH2	WAT	W	13	194.572	183.197	-8.077	1.00	36.64	W	O
ATOM	2477	OH2	WAT	W	14	198.254	147.344	-7.377	1.00	23.99	W	O
ATOM	2478	OH2	WAT	W	15	174.141	170.073	-2.678	1.00	18.36	W	O
ATOM	2479	OH2	WAT	W	16	197.136	162.247	7.860	1.00	20.24	W	O
ATOM	2480	OH2	WAT	W	17	178.742	175.122	-2.821	1.00	12.41	W	O
ATOM	2481	OH2	WAT	W	18	200.365	168.406	2.165	1.00	9.98	W	O
ATOM	2482	OH2	WAT	W	19	168.522	176.594	9.704	1.00	27.47	W	O
ATOM	2483	OH2	WAT	W	20	193.215	179.995	11.973	1.00	17.15	W	O
ATOM	2484	OH2	WAT	W	21	188.165	173.468	14.493	1.00	18.83	W	O
ATOM	2485	OH2	WAT	W	22	178.977	189.493	5.006	1.00	25.99	W	O
ATOM	2486	OH2	WAT	W	23	194.904	178.835	14.332	1.00	9.84	W	O
ATOM	2487	OH2	WAT	W	24	172.594	187.824	25.336	1.00	22.88	W	O
ATOM	2488	OH2	WAT	W	25	186.612	173.366	-9.877	1.00	19.22	W	O
ATOM	2489	OH2	WAT	W	26	176.840	183.702	20.193	1.00	22.57	W	O
ATOM	2490	OH2	WAT	W	27	176.801	160.388	11.646	1.00	15.90	W	O
ATOM	2491	OH2	WAT	W	28	178.487	174.788	11.702	1.00	18.10	W	O
ATOM	2492	OH2	WAT	W	29	181.155	186.952	32.619	1.00	32.00	W	O
ATOM	2493	OH2	WAT	W	30	209.304	163.564	-16.281	1.00	27.44	W	O
ATOM	2494	OH2	WAT	W	31	203.827	165.930	-0.838	1.00	16.37	W	O
ATOM	2495	OH2	WAT	W	32	183.937	190.638	21.333	1.00	17.02	W	O
ATOM	2496	OH2	WAT	W	33	190.362	181.451	8.363	1.00	23.84	W	O
ATOM	2497	OH2	WAT	W	34	201.524	183.136	11.412	1.00	27.78	W	O
ATOM	2498	OH2	WAT	W	35	176.401	172.283	12.285	1.00	22.44	W	O
ATOM	2499	OH2	WAT	W	36	191.486	178.801	-8.556	1.00	14.47	W	O
ATOM	2500	OH2	WAT	W	37	193.706	178.975	16.555	1.00	28.73	W	O
ATOM	2501	OH2	WAT	W	38	200.711	191.015	5.492	1.00	22.39	W	O
ATOM	2502	OH2	WAT	W	39	198.698	163.980	-2.087	1.00	16.88	W	O
ATOM	2503	OH2	WAT	W	40	186.096	174.714	13.402	1.00	14.25	W	O
ATOM	2504	OH2	WAT	W	41	189.561	189.228	27.405	1.00	21.43	W	O
ATOM	2505	OH2	WAT	W	42	185.742	175.020	-12.633	1.00	32.61	W	O
ATOM	2506	OH2	WAT	W	43	189.284	166.218	21.436	1.00	18.57	W	O
ATOM	2507	OH2	WAT	W	44	189.806	150.396	10.582	1.00	17.00	W	O
ATOM	2508	OH2	WAT	W	45	182.606	183.843	1.498	1.00	23.82	W	O
ATOM	2509	OH2	WAT	W	46	203.088	159.272	-4.093	1.00	20.75	W	O
ATOM	2510	OH2	WAT	W	47	197.775	190.097	18.980	1.00	22.00	W	O
ATOM	2511	OH2	WAT	W	48	193.113	164.352	18.292	1.00	18.52	W	O
ATOM	2512	OH2	WAT	W	49	188.303	192.170	8.139	1.00	29.33	W	O
ATOM	2513	OH2	WAT	W	50	178.988	188.073	29.292	1.00	22.03	W	O

ATOM	2514	OH2	WAT	W	51	179.041	176.835	-4.879	1.00	28.93	W	O
ATOM	2515	OH2	WAT	W	52	177.094	169.275	14.745	1.00	17.83	W	O
ATOM	2516	OH2	WAT	W	53	173.359	158.848	5.717	1.00	26.69	W	O
ATOM	2517	OH2	WAT	W	54	184.713	145.517	-1.099	1.00	25.66	W	O
ATOM	2518	OH2	WAT	W	55	197.989	162.673	24.709	1.00	31.35	W	O
ATOM	2519	OH2	WAT	W	56	190.279	149.132	-0.366	1.00	23.37	W	O
ATOM	2520	OH2	WAT	W	57	175.195	156.308	1.515	1.00	25.31	W	O
ATOM	2521	OH2	WAT	W	58	189.320	149.244	12.871	1.00	39.74	W	O
ATOM	2522	OH2	WAT	W	59	191.345	160.562	17.366	1.00	19.61	W	O
ATOM	2523	OH2	WAT	W	60	209.300	189.438	10.191	1.00	32.59	W	O
ATOM	2524	OH2	WAT	W	61	176.961	195.154	23.343	1.00	26.84	W	O
ATOM	2525	OH2	WAT	W	62	194.908	178.479	10.038	1.00	12.42	W	O
ATOM	2526	OH2	WAT	W	63	192.932	176.681	8.727	1.00	17.49	W	O
ATOM	2527	OH2	WAT	W	64	191.151	178.650	10.287	1.00	25.58	W	O
ATOM	2528	OH2	WAT	W	65	182.000	183.023	-13.348	1.00	15.88	W	O
ATOM	2529	OH2	WAT	W	66	174.844	179.377	29.234	1.00	21.85	W	O
ATOM	2530	OH2	WAT	W	67	192.666	150.025	4.037	1.00	24.70	W	O
ATOM	2531	OH2	WAT	W	68	191.227	167.117	19.848	1.00	27.52	W	O
ATOM	2532	OH2	WAT	W	69	195.798	166.787	-4.678	1.00	16.05	W	O
ATOM	2533	OH2	WAT	W	70	188.683	164.953	24.250	1.00	16.65	W	O
ATOM	2534	OH2	WAT	W	71	202.921	187.953	5.807	1.00	25.48	W	O
ATOM	2535	OH2	WAT	W	72	173.656	180.838	-1.296	1.00	19.16	W	O
ATOM	2536	OH2	WAT	W	73	178.223	170.722	21.753	1.00	28.96	W	O
ATOM	2537	OH2	WAT	W	74	200.047	185.273	4.691	1.00	36.63	W	O
ATOM	2538	OH2	WAT	W	75	199.421	160.492	21.694	1.00	54.41	W	O
ATOM	2539	OH2	WAT	W	76	174.343	151.575	-4.090	1.00	24.22	W	O
ATOM	2540	OH2	WAT	W	77	199.217	156.232	8.084	1.00	24.50	W	O
ATOM	2541	OH2	WAT	W	78	186.693	195.451	15.184	1.00	30.28	W	O
ATOM	2542	OH2	WAT	W	79	204.072	167.051	-16.474	1.00	30.81	W	O
ATOM	2543	OH2	WAT	W	80	189.729	170.883	13.071	1.00	24.00	W	O
ATOM	2544	OH2	WAT	W	81	193.562	167.033	18.576	1.00	34.40	W	O
ATOM	2545	OH2	WAT	W	82	188.055	177.150	-16.174	1.00	39.31	W	O
ATOM	2546	OH2	WAT	W	83	209.167	161.801	-3.764	1.00	29.76	W	O
ATOM	2547	OH2	WAT	W	84	189.954	187.203	-3.104	1.00	30.21	W	O
ATOM	2548	OH2	WAT	W	85	166.356	175.210	9.226	1.00	35.64	W	O
ATOM	2549	OH2	WAT	W	86	209.038	162.643	-13.951	1.00	29.71	W	O
ATOM	2550	OH2	WAT	W	87	179.913	164.861	20.417	1.00	23.03	W	O
ATOM	2551	OH2	WAT	W	88	176.985	177.272	13.711	1.00	28.39	W	O
ATOM	2552	OH2	WAT	W	89	197.775	160.663	10.355	1.00	30.90	W	O
ATOM	2553	OH2	WAT	W	90	180.418	156.423	-15.983	1.00	38.69	W	O
ATOM	2554	OH2	WAT	W	91	197.603	165.048	7.104	1.00	39.85	W	O
ATOM	2555	OH2	WAT	W	92	201.038	146.684	-3.627	1.00	28.72	W	O
ATOM	2556	OH2	WAT	W	93	191.798	173.307	-1.526	1.00	20.55	W	O
ATOM	2557	OH2	WAT	W	94	195.433	186.638	2.426	1.00	32.36	W	O
ATOM	2558	OH2	WAT	W	95	185.689	149.073	10.194	1.00	32.44	W	O
ATOM	2559	OH2	WAT	W	96	181.725	186.361	4.468	1.00	44.13	W	O
ATOM	2560	OH2	WAT	W	97	190.638	181.376	1.418	1.00	40.50	W	O
ATOM	2561	OH2	WAT	W	98	203.221	164.983	2.765	1.00	30.78	W	O
ATOM	2562	OH2	WAT	W	99	191.430	148.459	1.931	1.00	29.87	W	O
ATOM	2563	OH2	WAT	W	100	172.186	178.856	-0.480	1.00	35.57	W	O
ATOM	2564	OH2	WAT	W	101	195.541	178.234	1.979	1.00	25.17	W	O
ATOM	2565	OH2	WAT	W	102	170.598	187.029	21.078	1.00	24.60	W	O
ATOM	2566	OH2	WAT	W	103	175.607	172.274	-8.036	1.00	36.47	W	O
ATOM	2567	OH2	WAT	W	104	168.429	188.864	-6.367	1.00	22.94	W	O
ATOM	2568	OH2	WAT	W	105	186.340	190.812	24.666	1.00	32.99	W	O
ATOM	2569	OH2	WAT	W	106	201.816	192.555	4.023	1.00	28.31	W	O
ATOM	2570	OH2	WAT	W	107	202.504	159.814	-7.441	1.00	22.58	W	O
ATOM	2571	OH2	WAT	W	108	174.542	185.298	-11.131	1.00	31.96	W	O
ATOM	2572	OH2	WAT	W	109	175.457	179.403	15.662	1.00	39.35	W	O
ATOM	2573	OH2	WAT	W	110	196.564	193.700	7.818	1.00	32.38	W	O
ATOM	2574	OH2	WAT	W	111	173.232	181.808	-8.349	1.00	19.06	W	O
ATOM	2575	OH2	WAT	W	112	182.827	187.517	-4.364	1.00	45.61	W	O
ATOM	2576	OH2	WAT	W	113	189.838	194.231	7.217	1.00	42.16	W	O
ATOM	2577	OH2	WAT	W	114	191.170	159.628	-12.340	1.00	35.35	W	O
ATOM	2578	OH2	WAT	W	115	191.207	184.866	-0.535	1.00	34.38	W	O
ATOM	2579	OH2	WAT	W	116	183.572	197.288	15.706	1.00	39.58	W	O
ATOM	2580	OH2	WAT	W	117	199.841	150.695	13.176	1.00	35.40	W	O
ATOM	2581	OH2	WAT	W	118	174.316	180.622	18.227	1.00	29.36	W	O
ATOM	2582	OH2	WAT	W	119	174.539	169.945	15.478	1.00	36.75	W	O
ATOM	2583	OH2	WAT	W	120	186.965	189.198	27.316	1.00	33.73	W	O

ATOM	2584	OH2	WAT	W	121	185.505	146.137	-4.208	1.00	30.91	W	O
ATOM	2585	OH2	WAT	W	122	168.783	176.131	0.277	1.00	37.59	W	O
ATOM	2586	OH2	WAT	W	123	179.830	187.974	34.894	1.00	39.81	W	O
ATOM	2587	OH2	WAT	W	124	194.391	191.022	26.003	1.00	35.26	W	O
ATOM	2588	OH2	WAT	W	125	175.707	190.116	18.448	1.00	37.47	W	O
ATOM	2589	OH2	WAT	W	126	172.799	187.052	31.328	1.00	38.58	W	O
ATOM	2590	OH2	WAT	W	127	173.867	181.212	14.618	1.00	28.93	W	O
ATOM	2591	OH2	WAT	W	128	169.850	183.554	9.734	1.00	31.19	W	O
ATOM	2592	OH2	WAT	W	129	201.846	186.034	10.890	1.00	39.65	W	O
ATOM	2593	OH2	WAT	W	130	192.261	183.101	8.973	1.00	35.20	W	O
ATOM	2594	OH2	WAT	W	131	195.036	155.601	22.286	1.00	43.08	W	O
ATOM	2595	OH2	WAT	W	132	188.136	149.463	-10.689	1.00	31.69	W	O
ATOM	2596	OH2	WAT	W	133	193.611	166.439	22.911	1.00	37.73	W	O
ATOM	2597	OH2	WAT	W	134	169.159	198.181	-6.371	1.00	34.05	W	O
ATOM	2598	OH2	WAT	W	135	173.141	166.101	3.246	1.00	37.73	W	O
ATOM	2599	OH2	WAT	W	136	196.411	181.887	24.452	1.00	31.18	W	O
ATOM	2600	OH2	WAT	W	137	166.875	190.046	-8.389	1.00	35.44	W	O
ATOM	2601	OH2	WAT	W	138	168.310	173.985	5.026	1.00	36.83	W	O
ATOM	2602	OH2	WAT	W	139	191.553	162.337	-15.173	1.00	30.34	W	O
ATOM	2603	OH2	WAT	W	140	196.789	179.956	0.077	1.00	34.96	W	O
ATOM	2604	OH2	WAT	W	141	204.362	177.082	-3.998	1.00	42.74	W	O
ATOM	2605	OH2	WAT	W	142	178.237	157.118	15.427	1.00	37.51	W	O
ATOM	2606	OH2	WAT	W	143	180.703	166.918	18.919	1.00	22.25	W	O
ATOM	2607	OH2	WAT	W	144	190.076	196.775	13.865	1.00	38.81	W	O

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